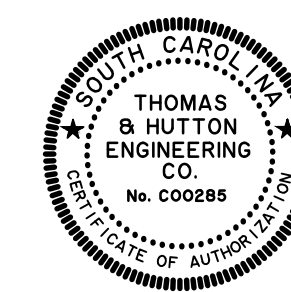


PREPARED FOR:
WASTE MANAGEMENT OF SOUTH CAROLINA, INC.
1850 PARKWAY PLACE
SUITE 600
MARIETTA, GA 30067

OCTOBER 31, 2017

J-26810.00001

PREPARED BY:



THOMAS
&
HUTTON

50 Park of Commerce Way
Savannah, GA 31405
p.912.234.5300 f.912.234.2950
www.thomasandhutton.com



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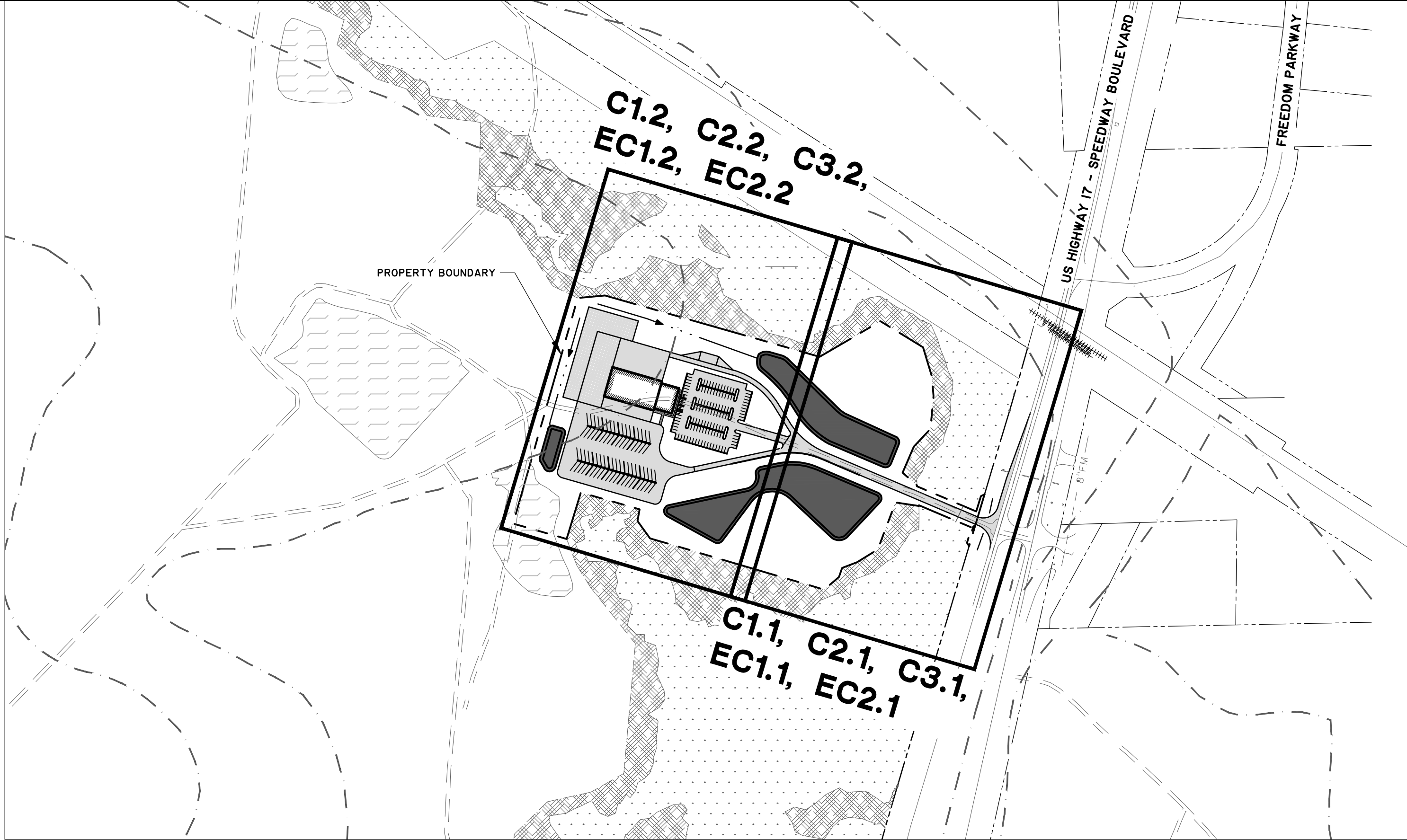
| SEWER LEGEND | | |
|-------------------------|----------|----------|
| DESCRIPTION | EXISTING | PROPOSED |
| GRAVITY PIPE | SS | |
| SINGLE SERVICE LATERAL | | |
| DOUBLE SERVICE LATERAL | | |
| MANHOLE | | |
| CLEANOUT | | |
| FORCEMAIN | 10"FM | 10"FM |
| VALVE AND BOX | | |
| FLUSH HYDRANT | | |
| REDUCER | | |
| BACKFLOW PREVENTOR | | |
| CROSS | | |
| TEE | | |
| 90° BEND - HORIZONTAL | | |
| 45° BEND - HORIZONTAL | | |
| 22-½° BEND - HORIZONTAL | | |
| 11-½° BEND - HORIZONTAL | | |
| BEND - VERTICAL | | |
| PLUG | | |

| WATER LEGEND | | |
|----------------------------|----------|----------|
| DESCRIPTION | EXISTING | PROPOSED |
| WATER MAIN | 10"W | 10"W |
| SINGLE SERVICE LATERAL | | |
| DOUBLE SERVICE LATERAL | | |
| VALVE AND BOX | | |
| FIRE HYDRANT W/VALVE & BOX | | |
| POST HYDRANT | | |
| REDUCER | | |
| BACKFLOW PREVENTOR | | |
| CROSS | | |
| TEE | | |
| 90° BEND - HORIZONTAL | | |
| 45° BEND - HORIZONTAL | | |
| 22-½° BEND - HORIZONTAL | | |
| 11-½° BEND - HORIZONTAL | | |
| BEND - VERTICAL | | |
| CAP | | |

| ABBREVIATIONS | | | | | |
|---------------|-----------------------------|------|--------------------------|-----|-----------------|
| HDPE | HIGH DENSITY POLYETHELENE | LF | LINEAR FEET | SF | SQUARE FEET |
| BOT | BOTTOM | MAX | MAXIMUM | SS | SANITARY SEWER |
| CI | CURB INLET | MIN | MINIMUM | TC | TOP OF CURB |
| CPP | CORRUGATED PLASTIC PIPE | MH | MANHOLE | TG | TOP OF GUTTER |
| DIP | DUCTILE IRON PIPE | OC | ON CENTER | TP | TOP OF PAVEMENT |
| EL | ELEVATION | PC | POINT OF CURVE | TW | TOP OF WALK |
| FG | FINISH GRADE | PH | POST HYDRANT | TYP | TYPICAL |
| FH | FIRE HYDRANT | PT | POINT OF TANGENT | W | WATER |
| FM | FORCE MAIN (SANITARY SEWER) | PVC | POLYVINYL CHLORIDE | W/ | WITH |
| FR | FRAME | RCP | REINFORCED CONCRETE PIPE | WV | WATER VALVE |
| GI | GRATE INLET | RJP | RESTRAINED JOINT PIPE | YI | YARD INLET |
| GV | GATE VALVE | R/W | RIGHT-OF-WAY | | |
| INV | INVERT ELEVATION | SD | STORM DRAINAGE | | |
| JB | JUNCTION BOX | SDMH | STORM DRAINAGE MANHOLE | | |

| DRAINAGE LEGEND | | |
|------------------|----------|----------|
| DESCRIPTION | EXISTING | PROPOSED |
| PIPE | | |
| DITCH | | |
| CURB INLET | | |
| GRATE INLET | | |
| JUNCTION BOX | | |
| OUTLET STRUCTURE | | |

| OTHER UTILITIES LEGEND | |
|-------------------------|----------|
| DESCRIPTION | EXISTING |
| NATURAL GAS | UGG UGG |
| TELEPHONE | OHT OHT |
| UNDERGROUND TELEPHONE | UTL UTL |
| ELECTRICITY | OHP OHP |
| UNDERGROUND ELECTRICITY | UGP UGP |



GENERAL NOTES

- SURVEYING AND BOUNDARY INFORMATION BY THOMAS AND HUTTON.
- ALL ELEVATIONS SHOWN ARE BASED ON NAVD 88.
- TOPOGRAPHIC SURVEY BY THOMAS AND HUTTON.
- CONTRACTOR IS TO VERIFY ACCURACY OF ANY TEMPORARY BENCHMARKS SHOWN PRIOR TO UTILIZING THEM FOR CONSTRUCTION.
- THERE ARE NO WETLANDS LOCATED ON THE PROPERTY. THERE ARE WETLANDS AND WETLAND BUFFERS LOCATED ADJACENT TO THE PROPERTY LINES. CONTRACTOR SHALL NOT ENCR OACH ON WETLAND AREAS OR BUFFERS AND WILL TAKE PRECAUTIONS TO PREVENT ENCR OACHMENT.
- EXISTING INFORMATION SHOWN ADJACENT TO THE LIMITS OF THE PROJECT HAS NOT BEEN FIELD VERIFIED AND IS PROVIDED FOR GENERAL INFORMATION PURPOSES.
- IF WORK IS SUSPENDED OR DELAYED FOR 14 DAYS, THE CONTRACTOR SHALL TEMPORARILY STABILIZE THE DISTURBED AREA AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL INSTALL ANY BARRICADES PRIOR TO BEGINNING CONSTRUCTION
- CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL AND PREVENTION STRUCTURES SHOWN ON THE PLANS, BOTH MUST BE APPROVED BY THE CITY OF HARDEEVILLE PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH OCRM GUIDELINES.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION , IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAY FROM CONSTRUCTION AREA. THE CONTRACTOR SHALL CLEAN AND RESTORE EACH EXISTING ROAD DAILY, AS MAY BE REQUIRED.
- WATER ENCOUNTERED WHILE TRENCHING FOR UTILITIES OR EXCAVATION FOR PONDS MUST BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE DISCHARGING OFFSITE. THE PUMP INTAKE SHOULD HAVE A FLOAT OR SIT ON A BED OF ROCK TO PREVENT DREDGING AND THE DISCHARGE SHOULD BE THROUGH AN ENERGY DISSIPATER AND/OR SEDIMENT TRAP.
- REFER TO SPECIFICATIONS, SECTION 02902, FOR GRASSING REQUIREMENTS AND SPECIFICATIONS.
- VEHICLES LEAVING SITE MUST TRAVERSE CONSTRUCTION EXITS TO REMOVE MUD FROM TIRES.
- OPEN SPACE AND LAGOON BANKS SHALL BE PERMANENTLY GRASSED. CLEARED AREAS SHALL BE TEMPORARILY GRASSED AND MEET ALL OCRM REGULATIONS.
- ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED SIMULTANEOUSLY WITH THE DISTURBANCE OF THE LAND AND SHALL REMAIN FUNCTIONAL UNTIL THE CONTRIBUTING DISTURBED AREAS ARE STABILIZED. SILT BARRIERS WILL BE INSTALLED AS NECESSARY TO PREVENT EXCESSIVE SEDIMENTATION OF DOWNSTREAM AREAS. DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL OF "EROSION AND SEDIMENT CONTROL PRACTICES FOR DEVELOPING AREAS" BY THE S.C. LAND RESOURCES CONSERVATION COMMISSION.
- CONTRACTOR SHALL GRADE AREAS TO DRAIN FOR POSITIVE FLOW PRIOR TO FINAL ACCEPTANCE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED.
- ALL DRAINAGE WILL BE MADE FUNCTIONAL DAILY AS WORK PROGRESSES.
- NEW PAVEMENT TO BE FLUSH WITH EDGE OF EXISTING PAVEMENT.
- ALL STORM DRAIN PIPE INVERTS IN AND OUT ARE THE SAME AS THE BOX INVERT UNLESS OTHERWISE NOTED ON THE PLAN SHEETS AND/OR PROFILES.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY BRACING, SHEETING AND DEWATERING TO COMPLETE THE PROJECT, PROTECT THE CONSTRUCTION WORKERS AND ALL ADJACENT STRUCTURES, TREES, LANDSCAPING, AND IS RESPONSIBLE FOR ALL REPAIR AND COST TO RETURN AREA TO ORIGINAL CONDITION.
- ALL UTILITY POLES ADJACENT TO PROPOSED CONSTRUCTION MUST BE SECURED PRIOR TO ANY ADJACENT DISTURBANCE AND THE CONSTRUCTION PROCEDURE MUST BE ACCEPTABLE TO THE UTILITY COMPANY.
- CONTROL OF STORMWATER THROUGHOUT THE CONSTRUCTION PERIOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE EXISTING DRAINAGE CONVEYANCES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL PENALTIES, CLAIMS AND FEES IMPOSED ON THE OWNER AS A RESULT OF DAMAGE CAUSED BY ACTIONS OF THE CONTRACTOR, THEIR EMPLOYEES OR SUBCONTRACTORS SHALL BE BORNE IN FULL BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES BEFORE WORK COMMENCES, VERIFY UTILITIES WITHIN THE PROJECT LIMITS AND NOTIFY THE ENGINEER OF CONFLICTS OR VARIANCES TO THE PLANS PRIOR TO BEGINNING WORK OR PURCHASE OF MATERIALS.
- CONTRACTOR SHALL COORDINATE REPAIRS TO EXISTING UTILITY LINES WITH THE LOCAL UTILITY.
- IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE THEIR OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE DATA AVAILABLE AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED, WASTED, GRADED, AND COMPACTED. THE INFORMATION SHOWN ON THESE PLANS IN NO WAY GUARANTEES THE AMOUNT OR NATURE OF THE MATERIAL TO BE ENCOUNTERED.
- THE CONTRACTOR WILL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.
- ALL SUITABLE MATERIAL EXCAVATED FROM DITCHES AND SWALES SHALL BE USED ON SITE. ANY EXCESS MATERIAL SUITABLE OR UNSUITABLE SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE
- ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND "SOUTH CAROLINA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BOTH CURRENT EDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DEVICES AND MEASURES AS NECESSARY TO MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO OWNER FOR REVIEW AND ACCEPTANCE PRIOR TO STARTING CONSTRUCTION.
- ALL WORK SHALL CONFORM TO APPLICABLE STATE, COUNTY AND MUNICIPAL REQUIREMENTS AND CODES.
- THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE PROPER PERMITS HAVE BEEN ISSUED
- ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN ACCEPTABLE WASTE DISPOSAL AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CONSTRUCTION DEBRIS.
- ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM INSIDE OF PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND SHALL BE KEPT CLEAN BY ACCEPTED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS THE ENDS OF THE PIPE SHALL BE CLOSED BY ACCEPTABLE MEANS AND NO TRENCH WATER SHALL BE PERMITTED IN THE PIPE.
- THE CONTRACTOR SHALL GRASS ALL AREAS DISTURBED BY CONSTRUCTION IMMEDIATELY AFTER THE WORK IN THOSE AREAS HAS CEASED.
- THE DESIGN OF THE PAVEMENT AND EARTHWORK MATERIALS, PROCEDURES AND METHODS SPECIFIED ARE BASED ON THE CRITERIA AND RECOMMENDATIONS ESTABLISHED IN THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON CONSULTANTS, INC., DATED 9/7/2016 AND SUBSEQUENT ADDENDUMS. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND FOLLOW THE RECOMMENDATIONS OF THE REPORT. ANY CONFLICTS BETWEEN THE REPORT AND OTHER SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE ENGINEER WILL PROVIDE DIRECTION OR CLARIFICATION OF ANY CONFLICT.
- ALL RCP STORM PIPE SHALL BE O-RING TYPE UNLESS SPECIFIED OTHERWISE.
- ALL STORM PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
- ALL STORM CROSSINGS WITH SEWER THAT ARE LESS THAN 18" BETWEEN PIPES SHALL BE BACKFILLED WITH STONE.
- CONTRACTOR WILL BE REQUIRED TO ADJUST STRUCTURE FRAMES TO MATCH FINAL GRADE AT NO ADDITIONAL COST.
- DRAINAGE IMPROVEMENTS TO BE INSTALLED PRIOR TO START OF VERTICAL CONSTRUCTION.
- SCOPE OF CIVIL SITE SERVICES TERMINATES FIVE (5) FEET OUTSIDE OF BUILDING CONSTRUCTION LIMIT. SEE ARCHITECTURAL AND MECHANICAL PLANS BY OTHERS FOR BUILDING DESIGN REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL COORDINATE ALL WORK WITH THE OWNER AND UTILITY COMPANIES.
- MAINTAIN A 10' (TEN FOOT) HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS. WHERE THIS SEPARATION CAN NOT BE MAINTAINED, OR THE LINES CROSS, THE BOTTOM OF THE WATER MAIN SHALL BE 18" ABOVE THE TOP OF THE SEWER MAIN LAID IN SEPARATE TRENCHES.

SHEET INDEX

SCALE: 1" = 300'

- SEWER LATERAL SHALL BE LAID AT A MINIMUM SLOPE OF ONE PERCENT.
- MAINTAIN A 5' (FIVE FOOT) HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND STORM DRAINAGE LINES. VERTICAL SEPERATION SHALL BE IN ACCORDANCE WITH BWSA SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE TIE-IN OF NEW WATER AND SEWER FACILITIES WITH BEAUFORT/JASPER WATER AND SEWER AUTHORITY
- CONTRACTOR SHALL MAINTAIN MINIMUM COVER OVER THE WATER MAIN PIPE BARREL OF 3'-0" UNLESS OTHERWISE INDICATED. TOP OF PIPE ELEVATIONS ARE SHOWN FOR CASES WHERE FUTURE STORM SEWERS ARE TO BE INSTALLED. IN NO CASE SHALL THE WATER MAIN BE INSTALLED AT A LOWER ELEVATION THAN SHOWN.
- SHOULD PIPE, FITTINGS, AND OTHER MATERIALS BE NEEDED IN ADDITION TO THAT SHOWN ON THE DRAWINGS BECAUSE PIPELINE WAS NOT INSTALLED TO THE ALIGNMENT AND PROFILE SHOWN, THEN THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THOSE NECESSARY MATERIALS AND PROVIDING THE EQUIPMENT AND LABOR TO INSTALL THEM TO MEET THE DESIGN INTENT OF THE WATERMAIN AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER 48 HOURS IN ADVANCE OF ALL REQUIRED TESTS AND INSPECTIONS.
- ALL WATERMAINS SHALL BE POLYVINYL CHLORIDE (PVC C900) UNLESS OTHERWISE INDICATED.
- ALL GRAVITY SEWER MAIN SHALL BE POLYVINYL CHLORIDE (PVC SDR26) UNLESS OTHERWISE INDICATED.
- THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES, EVEN THOSE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND TAKE STEPS TO PROTECT THE LINE(S) AND ENSURE CONTINUED SERVICE. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING NEW CONSTRUCTION.

PROJECT INFORMATION

SITE DATA

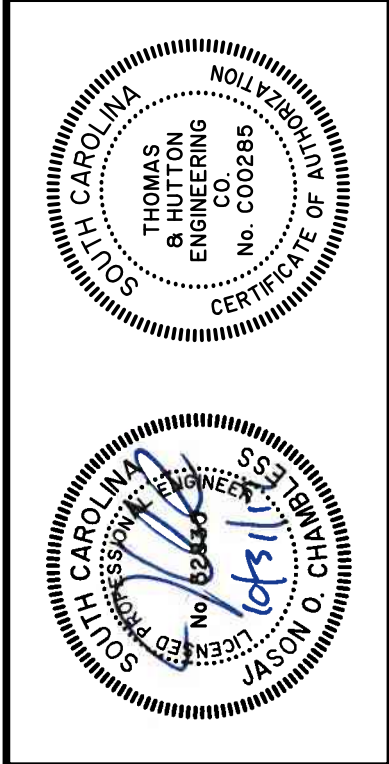
COUNTY: JASPER
CITY: HARDEEVILLE
PROPERTY ZONING: PDD
TAX MAP NUMBER: 031-00-00-016
FLOOD ZONE: ZONE AB/ ZONE B
FEMA FLOOD MAP PANEL AND DATE: 4501I2 0225B SEPT 29, 1986

TOTAL SITE AREA: 211 AC
TOTAL DISTURBED AREA: 17.5 AC

OWNER: WASTE MANAGEMENT OF SOUTH CAROLINA, INC.
ATTN: JOHN WORKMAN
1850 PARKWAY PLACE - SUITE 600
MARIE TTA, GA 30067
(770) 590-3308

ENGINEER: THOMAS & HUTTON
ATTN: JASON CHAMBLESS
50 PARK OF COMMERCE WAY
SAVANNAH, GA 31405
(912) 234-5300

UTILITY: BEAUFORT JASPER WATER & SEWER AUTHORITY (BWSA)
SOUTH CAROLINA ELECTRIC & GAS (SCE&G)
HARGRAY COMMUNICATIONS



| REVISIONS | | BY | DATE |
|-----------|--|----|------|
| NO. | | | |

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Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

WASTE MANAGEMENT OF SOUTH CAROLINA, INC.
HARDEEVILLE, SOUTH CAROLINA

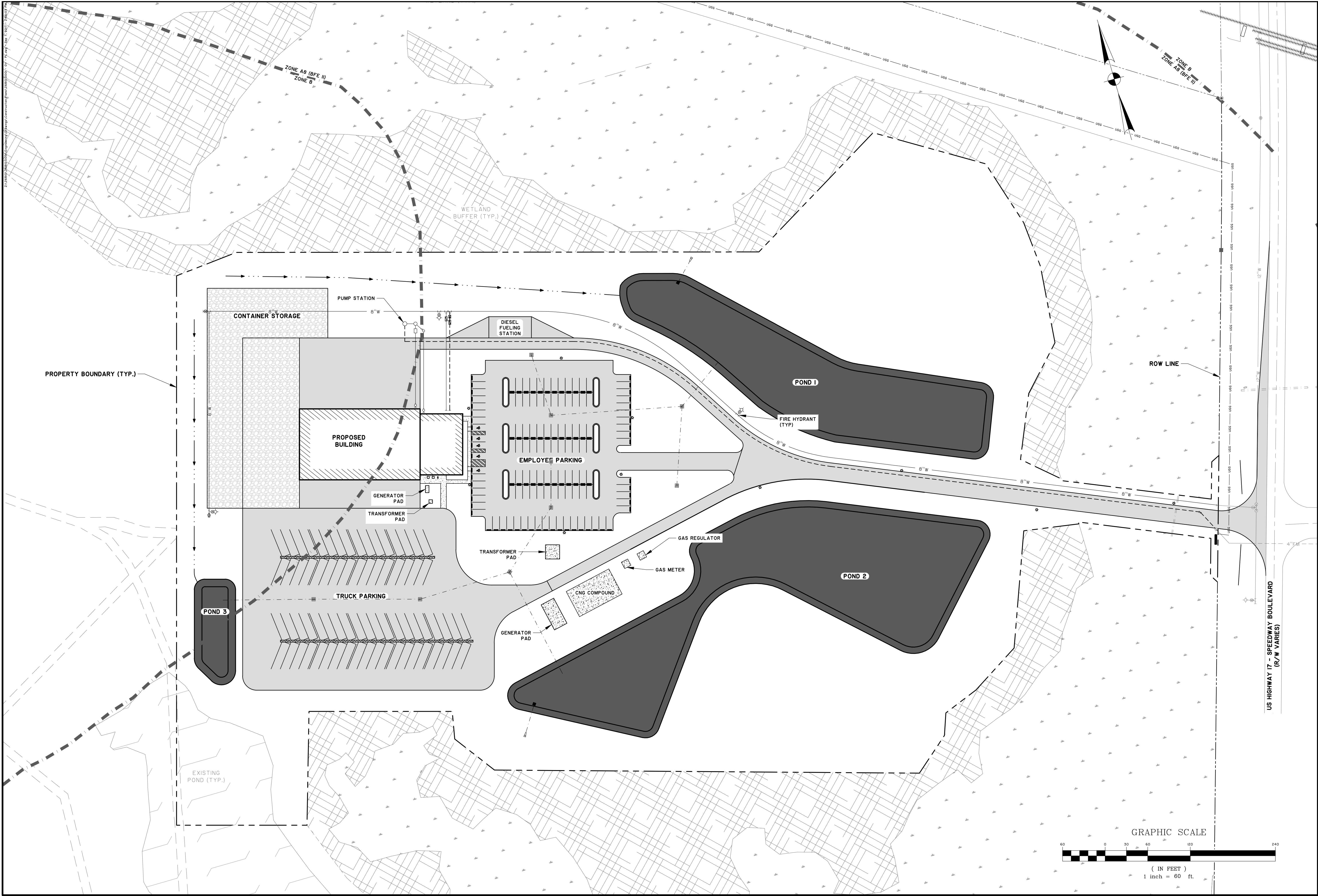
HARDEEVILLE HAULING FACILITY

GENERAL NOTES, LEGENDS, & SHEET INDEX

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|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | 1" = 300' |

G1.1

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CO.
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SOUTH CAROLINA
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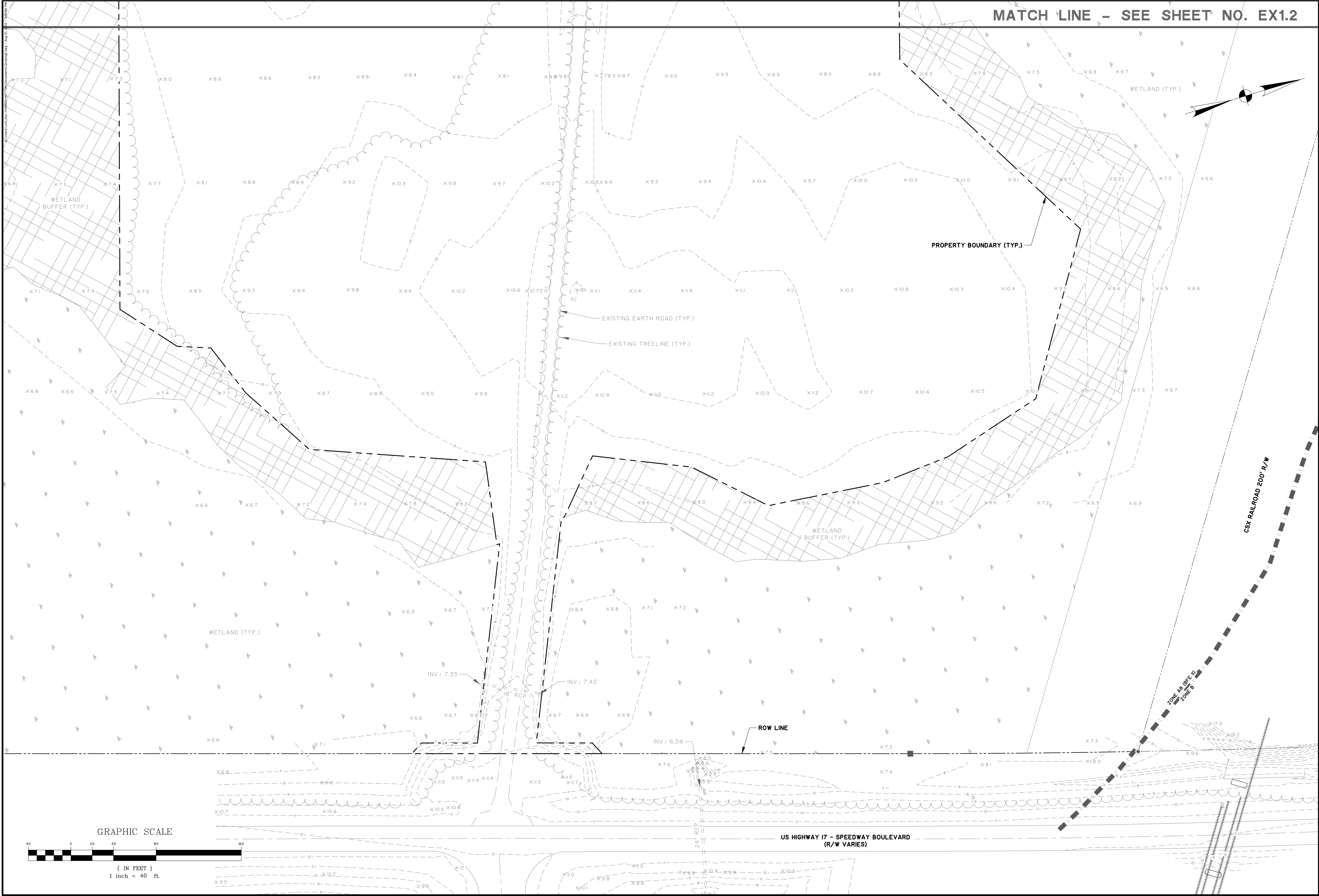
WASTE MANAGEMENT OF SOUTH CAROLINA, INC.
HARDEEVILLE, SOUTH CAROLINA

HARDEEVILLE HAULING FACILITY

OVERALL SITE LAYOUT

JOB NO: J-26810.0001
DATE: 10/31/17
DRAWN: WHE
DESIGNED: WHE
REVIEWED: JOC
APPROVED: JOC
SCALE: 1" = 60'

G1.2



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WASTE MANAGEMENT OF SOUTH CAROLINA, INC.

HARDEEVILLE, SOUTH CAROLINA

HARDEEVILLE HAULING FACILITY

EXISTING CONDITIONS

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | WHE |
| APPROVED: | JOC |
| SCALE: | 1" = 40' |

EX1.1

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I. SITE DESCRIPTION

| | |
|--|--------------------------------|
| A. PROJECT DESCRIPTION | |
| A.1. PROJECT AREA | 21.05 ACRES |
| A.2. AREA DISTURBED | 17.5 ACRES |
| A.3. PERCENT IMPERVIOUS AREA BEFORE CONSTRUCTION | 0 % |
| A.4. RUNOFF COEFFICIENT BEFORE CONSTRUCTION | 53 CN |
| A.5. PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION | 31 % |
| A.6. RUNOFF COEFFICIENT AFTER CONSTRUCTION | 73 CN |
| B. DESCRIPTION OF CONSTRUCTION ACTIVITY | |
| WORK CONSISTS OF CLEARING, GRADING, UTILITY INSTALLATION, DRAINAGE IMPROVEMENTS PAVING AND CONSTRUCTION OF A 22,000 SF BUILDING. | |
| C. RUNOFF DATA | |
| C.1. SOIL CLASSIFICATIONS: | (HSC) A/B/C |
| C.2. LAND USE(S): | INDUSTRIAL PARK |
| D. RECEIVING WATERS | |
| D.1. CLOSEST RECEIVING WATERS: | TRIBUTARY TO LITTLE BACK RIVER |
| D.2. ULTIMATE RECEIVING WATERS: | LITTLE BACK RIVER |
| E. FLOOD | |
| E.1. FEMA FLOOD ZONE(S): | B/A8 |
| E.2. FEMA FLOOD INSURANCE MAP(S): | 450112 0225 B |

II. CONTROL MEASURES

1. EROSION AND SEDIMENT CONTROLS

PRIOR TO START OF CONSTRUCTION, ALL EXTERIOR SILT FENCE WILL BE INSTALLED AS SHOWN ON THE PLANS.

1.1. CLEARING

- 1.1.1. AS CLEARING IS COMPLETED, ADDITIONAL SILT FENCE WILL BE INSTALLED WHERE NECESSARY, SUCH AS POINTS WHERE FLOWS BECOME CHANNELIZED, AND OTHER POINTS WHERE EXCESSIVE RUNOFF VELOCITIES MAY OCCUR.
- 1.1.2. INSTALL CONSTRUCTION ENTRANCES / EXITS BEFORE BEGINNING CLEARING
- 1.1.3. CONSTRUCTION DELAYS IN ANY ONE AREA GREATER THAN 14 DAYS PRIOR TO START OF ROUGH GRADING WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.
- 1.1.4. MAINTAIN EXISTING VEGETATION WHENEVER POSSIBLE AND MINIMIZE THE AREA OF DISTURBANCE. RETAIN AND PROTECT TREES TO ENHANCE FUTURE LANDSCAPING EFFORTS AND REDUCE RAINDROP IMPACT.
- 1.1.5. INSTALL ALL SEDIMENT CONTROL PRACTICES PRIOR TO ANY UP-SLOPE SOIL DISTURBING ACTIVITIES.
- 1.1.6. PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE AREAS DISTURBED AT ONE TIME. THIS WILL ALSO ALLOW COMPLETED AREAS TO BE STABILIZED AND RE-VEGETATED BEFORE DISTURBING ADJACENT SITES. THE NEED FOR TEMPORARY EROSION CONTROL MEASURES MAY BE AVOIDED BY COMPLETING A PHASE AND INSTALLING PERMANENT EROSION CONTROL MEASURES WHEN THE FINAL GRADE IS ATTAINED.
- 1.1.7. MAINTAIN AND PROTECT ALL NATURAL WATERWAYS. RETAIN AT LEAST A 35-FOOT UNDISTURBED BUFFER OF NATURAL VEGETATION ALONG ALL WATERWAYS TO FILTER OUT SEDIMENT AND OTHER POLLUTANTS. MAINTAIN A 45-FOOT UNDISTURBED BUFFER AROUND SENSITIVE WATERS.
- 1.1.8. INSTALL SILT FENCE (OR BIO ROLLS/ROCK SOCK PRODUCTS) ON THE DOWN-SLOPE PERIMETER OF ALL DISTURBED AREAS PRIOR TO ANY SOIL DISTURBING ACTIVITIES (INCLUDING CLEARING AND GRUBBING). SILT FENCE CAN TREAT A MAXIMUM OF 100 SQUARE FEET PER LINEAL FOOT OF FENCE. INSTALL SILT FENCE IN SHORTER REACHES ON THE CONTOUR WITH EACH END TURNED UP-SLOPE. SWALES AND SHORELAND AREAS SHOULD ALSO BE PROTECTED WITH SILT FENCE, BIO ROLLS, OR ROCK SOCKS.
- 1.1.9. IN AREAS OF CONCENTRATED FLOW INSTALL STRAW BALE CHECKS, ROCK CHECK DAMS, TRIANGULAR DIKES, BIO ROLL BLANKETS, OR ROCK SOCKS TO SLOW RUNOFF AND TRAP SEDIMENT.
- 1.1.10. USE TEMPORARY SLOPE DRAINS OR ROCK CHUTES TO MOVE WATER DOWN STEEP SLOPES.
- 1.1.11. CONSTRUCT SEDIMENT BASINS FOR DRAINAGE AREAS GREATER THAN 10 ACRES

1.2. ROUGH GRADING

- 1.2.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROUGH GRADING. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.
- 1.2.2. ALL AREAS NOT SUBJECT TO FURTHER CONSTRUCTION (DRAINAGE, SANITARY SEWER, ROADS, WATER DISTRIBUTION SYSTEMS, OR STORM WATER FACILITIES) SHALL BE GRASSED WITH A PERMANENT COVER.
- 1.2.3. COVER ANY STOCK PILED TOPSOIL WITH PLASTIC (OR OTHER IMPERVIOUS COVERING) OR USE A TEMPORARY SEED MIX. USE STOCKPILED TOPSOIL AS EARTHEN BERMS TO SERVE AS TEMPORARY SEDIMENT BASINS.
- 1.3. DRAINAGE
- 1.3.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING DRAINAGE INSTALLATION.
- 1.3.2. CONSTRUCTION DRAINAGE WILL BE ROUTED THROUGH LAKES, WHICH WILL ACT AS SEDIMENT BASINS OR OTHER ACCEPTABLE SEDIMENT BASINS/TRAPS.
- 1.3.3. STORM DRAIN INLET PROTECTION AS SHOWN ON DETAIL SHEET SHALL BE INSTALLED ON ALL CURB INLETS, STORM DRAIN MANHOLES, JUNCTION BOXES, AND GRATE INLETS.
- 1.3.4. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF THE NEXT CONSTRUCTION SEQUENCE WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.
- 1.3.5. ALL STORM LINES NOT IN STREETS OR OTHER PAVED AREAS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL.
- 1.4. WASTE DISTRIBUTION SYSTEM INSTALLATION
- 1.4.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING INSTALLATION OF THE WATER DISTRIBUTION SYSTEM.
- 1.4.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.
- 1.5. WASTEWATER COLLECTION SYSTEM INSTALLATION
- 1.5.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING INSTALLATION OF THE WASTEWATER SYSTEM.
- 1.5.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.6. CONSTRUCTION OF ROADS

- 1.6.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROAD CONSTRUCTION.
- 1.6.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.
- 1.7. GRASSING
- 1.7.1. ALL EXISTING CONTROLS WILL BE MAINTAINED UNTIL GRASSING IS ESTABLISHED
- 1.7.2. ANY AREAS THAT ERODE OR WHERE GRASS DOES NOT ESTABLISH ITSELF SHALL BE RE-GRADED AND RE-GRASSED

2. STORM WATER MANAGEMENT

RUNOFF FROM THIS PROJECT WILL DISCHARGE INTO A STORM WATER MANAGEMENT SYSTEM. TREATMENT WILL OCCUR IN STORM WATER DETENTION PONDS.

3. OTHER CONTROLS

3.1. WASTE DISPOSAL

- 3.1.1. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO ANY RECEIVING WATERS.
- 3.1.2. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED.
- 3.1.3. THIS PLAN SHALL COMPLY WITH STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
- 3.1.4. DUST CONTROL ON DISTURBED AREAS - CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE AND HAUL ROUTES. THE PURPOSE OF THE MEASURE IS TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES, WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

III. MAINTENANCE

1. MAINTENANCE PROGRAM

- 1.1. THE SITE SUPERINTENDENT, OR HIS/HER REPRESENTATIVE, SHALL MAKE VISUAL INSPECTIONS OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREAS (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS, ESPECIALLY AFTER HEAVY RAINFALL EVENT TO INSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RE-SEEDING AND MULCHING OR RE-SODDING IF NECESSARY.
- 1.2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ALL DRAINAGE SWALES, POCKETS, DEPRESSION, LOW LINES, AND OUTLET DITCHES SHALL DRAIN EFFECTIVELY AT ALL TIMES. SETTLEMENT OR WASHING THAT MAY OCCUR SHALL BE REPAIRED BY THE CONTRACTOR. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN AN EFFECTIVE BARRIER. MAINTAIN THE CONSTRUCTION EXIT IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TACKED ONTO PUBLIC ROADWAYS. RESEED AND MULCH AREA WHERE SEEDING EMERGENCE IS POOR. OR WHERE EROSION OCCURS. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE. INSPECT ALL MULCHES PERIODICALLY, AND AFTER RAINSTORMS TO CHECK FOR EROSION, DISLOCATION OR FAILURE. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED AND REINSTALL MULCH. FOLLOW THE CONSTRUCTION SEQUENCE THROUGHOUT THE PROJECT DEVELOPMENT. WHEN CHANGES IN CONSTRUCTION ACTIVITIES ARE NEEDED, AMEND THE SEQUENCE SCHEDULE IN ADVANCE TO MAINTAIN MANAGEMENT CONTROL. IF MAJOR CHANGES ARE NECESSARY, SEND A COPY OF THE MODIFIED SCHEDULE TO THE ENGINEER. SEDIMENT AND EROSION CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE DISTURBED AREAS ARE STABILIZED.
2. SILT FENCE
- SILT FENCES WILL BE MONITORED DURING CONSTRUCTION. ANY SILT FENCE WHICH IS NOT FUNCTIONING PROPERLY WILL BE PROMPTLY REPAIRED. CLEAN OUT THE SILT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE OR REPLACE WITH FUNCTIONAL SILT FENCE WITHIN 24 HOURS. USE OF HOSES AND WATER TO FLUSH THE SEDIMENT INTO THE STORM INLETS IS UNACCEPTABLE.
3. SEDIMENTATION BASINS
- SEDIMENTATION BASINS WHICH ARE AT 50% USED CAPACITY OR APPROACHING SUCH CAPACITY SHALL BE RE-EXCAVATED TO ORIGINAL DIMENSIONS AND THE SILT PROPERLY DISPOSED OF.
4. SEDIMENT LOGS/ROLLS
- SEDIMENT LOGS/ROLLS OR OTHER CONTROL MEASURES WHICH BEGIN TO DISINTEGRATE OR FUNCTION INADEQUATELY SHALL BE PROMPTLY REPLACED.
5. VEGETATION COVER
- ANY VEGETATION COVER SERVING TO STABILIZE DISTURBED SOILS WHICH IS ITSELF DISTURBED SHALL IMMEDIATELY BE REPLACED.
6. CONSTRUCTION ENTRANCE
- MAINTAIN ROCK CONSTRUCTION ENTRANCE AND CLEAN ADJACENT ROADS OF ANY MUD TRACKED INTO THEM.

IV. INSPECTIONS

1. QUALIFIED PERSONNEL WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH DURING THE WARRANTY PERIOD.
2. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
3. A WRITTEN REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES) AND WHETHER ANY DISCHARGES OCCURRED, LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE, LOCATION(S) OF BMP(S) THAT NEED MAINTENANCE, LOCATION(S) OF BMP(S) THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, LOCATION(S) WHERE ADDITIONAL BMP(S) ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION AND ANY CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO SWPPP NECESSARY AND IMPLEMENTATION DATES.
4. THE REPORT SHALL BE MAINTAINED AT LEAST THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED. THE REPORT MUST BE SIGNED AND SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THE MAPS PERMIT REFERENCED ABOVE. THE CONTRACTOR SHALL MAINTAIN THIS REPORT. THE REPORT SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.

V. LONG TERM MAINTENANCE OF DRAINAGE AND STORM WATER MANAGEMENT SYSTEM

THE ROADS AND DRAINAGE SYSTEM WILL BE OWNED AND MAINTAINED BY WASTE MANAGEMENT OF SOUTH CAROLINA, INC. AFTER CONSTRUCTION IS COMPLETE.

VI. SC DHEC STANDARD NOTES

1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO GRASSING / HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - 2.1. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - 2.2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF SITE INSPECTIONS IDENTIFY BMP(S) THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE BEFORE THE NEXT STORM EVENT WHENEVER PRACTICAL.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS

STORMWATER POLLUTION PREVENTION PLAN

BEFORE BEING PUMPED INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. THE CONTRACTOR SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 AND SCR100000.
8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
11. A COPY OF THE SWPPP, INSPECTION RECORDS AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
13. MINIMIZE SOIL COMPACTION IN AREAS NOT UNDER PAVEMENTS AND /OR STRUCTURES AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING. WHEEL WASH WATER AND OTHER WASH WATERS, WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUAL OR BETTER TREATMENT PRIOR TO DISCHARGE.
15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP(S) (SEDIMENT BASIN, FILTER BAG, ETC.).
16. THE FOLLOWING DISCHARGES ARE PROHIBITED:
 - 16.1. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - 16.2. WASTEWATER FROM WASHOUT AND CLEANOUT OF DRY STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
 - 16.3. FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - 16.4. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
18. IF EXISTING BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF PERMIT SCR100000 AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMP'S MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE, THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

VII. EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

1. THE IMPLEMENTATION OF THESE EROSION SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADES OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
2. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
3. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
4. THE ESC FACILITIES SHALL NOT BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
5. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A MAJOR STORM EVENT.
6. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING AND PRIOR TO FINAL INSPECTION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
7. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
8. BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY, THE EXISTING STORM WATER INLET(S) THAT RECEIVING RUNOFF FROM THE PROPOSED WORK AREA SHALL BE PROTECTED. THE TEMPORARY INLET PROTECTION MUST REMAIN IN PLACE UNTIL THE CONSTRUCTION ACTIVITY IS COMPLETED. THE STREET HAS BEEN SWEEPED AND ANY EXPOSED SOILS ARE STABILIZED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR RESERVING INLET PROTECTION UNTIL THE UTILITY IS NOT SHOWN INSTALLED. AFTER ALL DISTURBED AREAS ARE STABILIZED, TEMPORARY PROTECTION OF THE INLETS MAY BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING:
 - 8.1. USE OF GRAVEL BAGS TO FILTER THE SEDIMENT FROM ANY RUNOFF. TO MAKE A GRAVEL BAG, USE A BAG MADE OF GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH EITHER 3/4 INCH ROCK OR 1/4 INCH PEA GRAVEL.
 - 8.2. USE OF SEDIMENT LOGS TO FILTER THE SEDIMENT FROM ANY RUNOFF (AVAILABLE THROUGH LOCAL EROSION CONTROL SUPPLIERS).
 - 8.3. USE OF ABOVE OR UNDER-GRATE FILTER BAGS OR DEVICES TO FILTER THE SEDIMENT FROM ANY RUNOFF (AVAILABLE THROUGH EROSION CONTROL SUPPLIERS).
9. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION, SEDIMENTATION, OR FLOODING ON THE SITE, ON DOWNSTREAM PROPERTIES, IN THE RECEIVING CHANNELS, OR IN ANY STORM WATER INLET. WHEN SITE DEWATERING, WATER PUMPED FROM THE SITE, INCLUDING TRENCHES, SHALL BE TREATED BY ONE OF THE FOLLOWING:
 - 9.1. TEMPORARY SEDIMENTATION BASINS
 - 9.2. SEDIMENT FILTERING BAGS
10. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES. EXISTING UTILITIES ARE ALL UTILITIES THAT EXIST ON THE PROJECT IN AN ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UNDERGROUND OR OVERHEAD FACILITIES. EVEN IF THE UTILITY IS NOT SHOWN ON THE SITE DEVELOPMENT PLANS, THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITIES PROTECTION CENTER TO COORDINATE THE MARKING OF EXISTING UTILITY LINES A MINIMUM OF 96 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
11. THE CONTRACTOR SHALL FLUSH ALL INLETS AND PIPE AT THE COMPLETION OF CONSTRUCTION TO REMOVE SILT AND DEBRIS. THE CLEANING AND FLUSHING OF INLETS AND PIPE (EXISTING AND PROPOSED) SHALL BE CONSIDERED PART OF THE COST FOR THE PROJECT.
12. EGRESS FROM THE SITE SHALL BE CONTROLLED SUCH THAT VEHICLES LEAVING THE SITE MUST

TRAVERSE CONSTRUCTION EXITS TO REMOVE MUD FROM TIRES.

13. SCHEDULE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXPOSED AREA AND DURATION OF EXPOSURE. IN SCHEDULING, TAKE INTO ACCOUNT THE SEASON AND THE WEATHER FORECAST.
14. EROSION CONTROL MEASURES ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL MEASURES AS DICTATED BY ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION IN ORDER TO PREVENT EROSION AND CONTROL SEDIMENT. EROSION AND SEDIMENT CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE ENTIRE PROJECT IS TERMINATED OR SUSPENDED FOR AN INDEFINITE LENGTH OF TIME. ALL DISTURBED AREAS SHALL BE PLANTED WITH PERMANENT VEGETATION.
15. THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, IS BASED UPON FIELD INVESTIGATIONS AND IS BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME IS SHOWN AS INFORMATION ONLY, IS NOT GUARANTEED AND DOES NOT BIND THOMAS & HUTTON, OR THE OWNER IN ANY WAY.
16. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.
17. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE STORM WATER DISCHARGE.
18. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
19. LIME RATES AND ANALYSIS:
 - 19.1. AGRICULTURAL LIME SHALL BE APPLIED AT THE RATE SHOWN IN THE SEEDING SECTION UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME APPLICATION SHALL BE WITHIN THE SPECIFICATIONS OF THE SOUTH CAROLINA DEPARTMENT OF AGRICULTURE.
20. MULCHING:

- MULCHING IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED.
- 20.1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE. DRY HAY SHALL BE APPLIED AT THE RATE OF 1 1/2 TONS PER ACRE.
 - 20.2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT A RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
 - 20.3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES OF 1:1 OR STEEPER.
 - 20.4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE.
 - 20.5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
 - 20.6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLACK SOD, MULCH IS NOT REQUIRED.
 - 20.7. ON SLOPES GREATER THAN 10 FEET IN LENGTH AND 4:1 OR STEEPER, USE THE FOLLOWING EROSION CONTROL BLANKETS THAT HAVE BEEN PROPERLY ANCHORED TO THE SLOPE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
 - 2:1 SLOPES OR STEEPER - STRAW/COCONUT BLANKET OR HIGH VELOCITY WOOD BLANKET
 - 3:1 SLOPES OR STEEPER - WOOD OR STRAW BLANKET WITH NET ON BOTH SIDES
 - 4:1 SLOPES OR FLATTER - WOOD OR STRAW MULCH BLANKET WITH NET ON ONE SIDE

VIII. HOUSEKEEPING

THESE PERFORMANCE STANDARDS APPLY TO ALL SITES.

1. PETROLEUM PRODUCTS: INCLUDING OIL, GASOLINE, LUBRICANTS AND ASPHALTIC SUBSTANCES.
 - 1.1. HAVE EQUIPMENT TO CONTAIN AND CLEAN UP PETROLEUM SPILLS IN FUEL STORAGE AREAS OR ON MAINTENANCE AND FUELING VEHICLES
 - 1.2. STORE IN COVERED AREAS PROTECTED WITH DIKES
2. SPILLS: PREVENTION AND RESPONSE.
 - 2.1. STORE AND HANDLE MATERIALS TO PREVENT SPILLS
 - 2.2. TIGHTLY SEALED CONTAINERS, NEAT AND SECURE STACKING, ETC.
 - 2.3. REDUCE STORM WATER CONTACT IF SPILL OCCURS
 - 2.3.1. CLEANUP PROCEDURES SHOULD BE CLEARLY POSTED.
 - 2.3.2. CLEANUP MATERIALS SHOULD BE READILY AVAILABLE
 - 2.3.3. STOP THE SOURCE
 - 2.3.4. CONTAIN THE SPILL
3. NON-STORM WATER DISCHARGES
- THE FOLLOWING NON-STORMWATER DISCHARGES MUST BE PROTECTED FROM CAUSING POLLUTION OR EROSION:
 - 3.1. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES
 - 3.2. FIRE HYDRANT FLUSHINGS
 - 3.3. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
 - 3.4. WATER USED TO CONTROL DUST
 - 3.5. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS
 - 3.6. ROUTINE EXTERNAL BUILDING WASH DOWN THAT DOES NOT USE DETERGENTS
 - 3.7. PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED
 - 3.8. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE
 - 3.9. UNCONTAMINATED GROUND WATER OR SPRING WATER
 - 3.10. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS
 - 3.11. UNCONTAMINATED EXCAVATION DEWATERING
 - 3.12. LANDSCAPE IRRIGATION
 - 3.13. DECHLORINATED SWIMMING POOL DISCHARGES.
4. CONSTRUCTION WASTES: DEMOLITION RUBBLE, PACKAGING MATERIALS, SCRAP BUILDING SUPPLIES, ETC.
 - 4.1. SELECT A DESIGNATED WASTE COLLECTION AREA
 - 4.2. PROVIDE LIME FOR WASTE CONTAINERS
 - 4.3. WHEN POSSIBLE LOCATE CONTAINERS IN COVERED AREA
 - 4.4. MAINTAIN CONSISTENT REMOVAL SCHEDULE FOR WASTE
5. PESTICIDES: REDUCE THE AMOUNT OF PESTICIDES AVAILABLE FOR CONTACT WITH STORM WATER.
 - 5.1. STORE IN A DRY COVERED AREA
 - 5.2. INSTALL CURBS OR DIKES AROUND STORAGE AREA TO PROTECT AGAINST SPILLS
 - 5.3. STRICTLY FOLLOW RECOMMENDED APPLICATION RATES
6. FERTILIZERS AND DETERGENTS: REDUCE THE AMOUNT OF FERTILIZERS AND DETERGENTS AVAILABLE FOR CONTACT WITH STORM WATER.
 - 6.1. LIMIT APPLICATION OF FERTILIZERS TO THE MINIMUM NEEDED
 - 6.2. APPLY MORE FREQUENTLY BUT AT LOWER APPLICATION RATES
 - 6.3. LIMIT USE OF DETERGENTS ON-SITE
 - 6.4. DO NOT DISCHARGE WASH WATER INTO STORM WATER SYSTEM
 - 6.5. MAINTAIN STRUCTURAL AND VEGETATIVE BMP'S
 - 6.6. APPLY ACCORDING TO SOIL TEST RECOMMENDATIONS PRIOR TO SEEDING.

IX. GRASSING NOTES

1. SOD:

ALL SOD SHALL BE NURSERY GROWN AS CLASSIFIED IN THE ASPS GSS. MACHINE CUT SOD AT A UNIFORM THICKENS OF 3/4" WITHIN A TOLERANCE OF 1/4". EXCLUDING TOP GROWTH AND THATCH. EACH INDIVIDUAL SOD PIECE SHALL BE STRONG ENOUGH TO SUPPORT ITS OWN WEIGHT WHEN LIFTED BY THE ENDS. BROKEN PODS, IRREGULARLY SHAPED PIECES, AND TORN OR UNEVEN ENDS WILL BE REJECTED. WOOD PEGS AND / OR WIRE STAPLES SHALL REPLACE SOD WITH AN EQUAL SOD COMPOSITION AS THAT WHICH IS EXISTING. IF NO SOD TYPE EXIST, THEN THE FOLLOWING SOD COMPOSITION SHALL BE USED.

2. SODDING SCHEDULE:

LAY SOD FROM MAY 1 TO SEPTEMBER 15 FOR SPRING PLANTING AND FROM SEPTEMBER 15 TO NOVEMBER 1 FOR FALL PLANTING.

3. SEED:

ALL SEED SHALL CONFORM TO ALL STATE LAWS AND TO ALL REQUIREMENTS AND REGULATIONS OF THE SOUTH CAROLINA DEPARTMENT OF AGRICULTURE. THE SEVERAL VARIETIES OF SEED SHALL BE INDIVIDUALLY PACKAGED OR BAGGED, AND TAGGED TO SHOW NAME OF SEED, NET WEIGHT, ORIGIN, GERMINATION, LOT NUMBER, AND OTHER INFORMATION REQUIRED BY THE DEPARTMENT OF AGRICULTURE.

- 3.1. PENNISETUM GLAUCIUM (BROWNTOP MILLET): TESTING 98 PERCENT PURITY AND 85 PERCENT GERMINATION
- 3.2. BERMUODA COMMON: TESTING 98 PERCENT PURITY AND 85 PERCENT GERMINATION.
- 3.3. DOMESTIC ITALIAN RYE: TESTING 98 PERCENT PURITY AND 90 PERCENT GERMINATION.

4. MISCELLANEOUS:

- 4.1. PERMANENT SEEDING SHALL COVER ALL DISTURBED AREA NOT TO BE COVERED BY LANDSCAPE PLANTING BEDS, STRUCTURE, OR PAVEMENT.
- 4.2. SEED ALL DISTURBED AREAS WITHIN SEVEN DAYS OF FINAL GRADING AND TEMPORARY SEED/MULCH ALL AREAS THAT WILL BE LEFT INACTIVE FOR MORE THAN FOURTEEN (14) DAYS.
- 4.3. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED
- 4.4. CENTPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THRU OCTOBER
- 4.5. IF GRASSING OCCURS DURING A MONTH REQUIRING TEMPORARY COVER, THE CONTRACTOR SHALL APPLY PERMANENT COVER (IN ADDITION TO THE TEMPORARY COVER) AT THE APPROPRIATE TIME AT NO NO ADDITIONAL COST. THE CONTRACTOR MUST ACHIEVE A STRAND OF PERMANENT GRASS WITH AT LEAST 95% COVER. BARE SPOTS CAN NOT BE MORE THAN 1 INCH SQUARE IN ANY 10 SF.

X. PERMANENT STABILIZATION

NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL ESTABLISHED. IF NECESSARY, AREAS MUST BE RE-WORKED AND RE-STABILIZED IF GRASSING IS SPARSE. PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS EVIDENT. ONE OR MORE OF THE FOLLOWING MAY APPLY TO THE SITE.

4.1. SEEDED AREAS

FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS A 90% COVER OF THE DISTURBED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.

4.2. SODDED AREAS

FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE APPROVED MULCH MATERIAL.

4.3. PERMANENT MULCH

FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL.

4.4. RIPRAP

FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF AN APPROVED GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP.

4.5. DITCHES, CHANNELS, AND SWALES


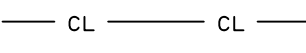
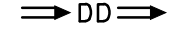
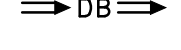





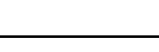
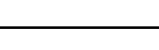
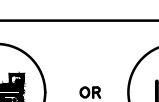

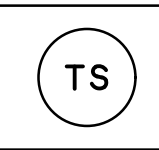
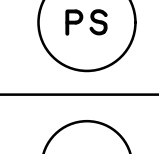
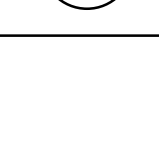

FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED

STORMWATER POLLUTION PREVENTION PLAN

[illegible]

| PERMANENT SEEDING - COASTAL | | | | | | | | | | | | | |
|-----------------------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SPECIES | LBS/AC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| SANDY, DROUGHTY SITES | | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| BAHIAGRASS | 40 | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| BAHIAGRASS | 30 | | | | | | | | | | | | |
| SERICEA LESPEDEZA | 40 | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| ATLANTIC COASTAL | 15 | | | | | | | | | | | | |
| PANICGRASS | PLS | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| SWITCHGRASS | 8 | | | | | | | | | | | | |
| (ALAMO) | PLS | | | | | | | | | | | | |
| LITTLE BLUESTEM | 4 | | | | | | | | | | | | |
| SERICEA LESPEDEZA | 20 | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| WEEPING LOVEGRASS | 8 | | | | | | | | | | | | |
| WELL DRAINED, CLAYEY/LOAMEY SITES | | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| BAHIAGRASS | 40 | | | | | | | | | | | | |
| RYE, GRAIN | 10 | | | | | | | | | | | | |
| BAHIAGRASS | 40 | | | | | | | | | | | | |
| CLOVER, CRIMSON (ANNUAL) | 5 | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| BAHIAGRASS | 30 | | | | | | | | | | | | |
| SERICEA LESPEDEZA | 40 | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| BERMUDA, COMMON | 10 | | | | | | | | | | | | |
| SERICEA LESPEDEZA | 40 | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| BERMUDA, COMMON | 12 | | | | | | | | | | | | |
| KOBE LESPEDEZA (ANNUAL) | 10 | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| BAHIAGRASS | 20 | | | | | | | | | | | | |
| BERMUDA, COMMON | 6 | | | | | | | | | | | | |
| SERICEA LESPEDEZA | 40 | | | | | | | | | | | | |
| BROWNTOP MILLET | 10 | | | | | | | | | | | | |
| SWITCHGRASS | 8 | | | | | | | | | | | | |
| LITTLE BLUESTEM | PLS | | | | | | | | | | | | |
| INDIAGRASS | 3 | | | | | | | | | | | | |

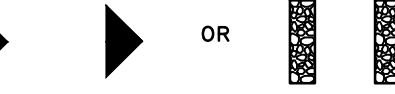


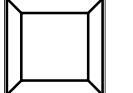
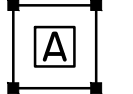


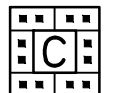
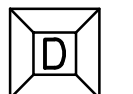
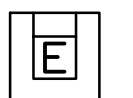
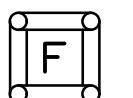

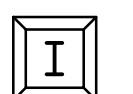

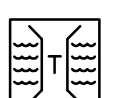
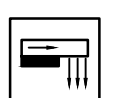
EROSION CONTROL LEGEND

| DESCRIPTION | PLAN SYMBOL |
|--------------------------|---|
| SILT FENCE |  |
| CLEARING LIMITS |  |
| DIVERSION DIKE |  |
| DIVERSION BERM |  |
| TEMPORARY DIVERSION |  |
| PERMANENT DIVERSION |  |
| SUBSURFACE DRAIN |  |
| VEGETATED CHANNEL |  |
| RIP RAP LINED CHANNEL |  |
| ECB OR TRM LINED CHANNEL |  |
| PAVED CHANNEL |  |
| TREE PROTECTION |  |
| SURFACE ROUGHENING |  |
| TOP SOILING |  |
| TEMPORARY SEEDING |  |
| PERMANENT SEEDING |  |
| MULCHING |  |

EROSION CONTROL LEGEND

| DESCRIPTION | PLAN SYMBOL |
|---|-------------|
| EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT | |
| FLEXIBLE GROWTH MATRIX | |
| BONDED FIBER MATRIX | |
| SODDING | |
| SLOPED SODDING | |
| STAKED SOD | |
| STAKED SOD AROUND INLET | |
| RIPRAP | |
| OUTLET PROTECTION - RIP RAP | |
| OUTLET PROTECTION - ECB OR TRM | |
| DUST CONTROL | |
| POLYACRYLAMIDE (PAM) | |
| SEDIMENT BASIN | |
| SEDIMENT BASIN WITH SKIMMER | |
| SEDIMENT TRAP | |
| ROCK SEDIMENT DIKE | |
| SEDIMENT TUBE | |

EROSION CONTROL LEGEND

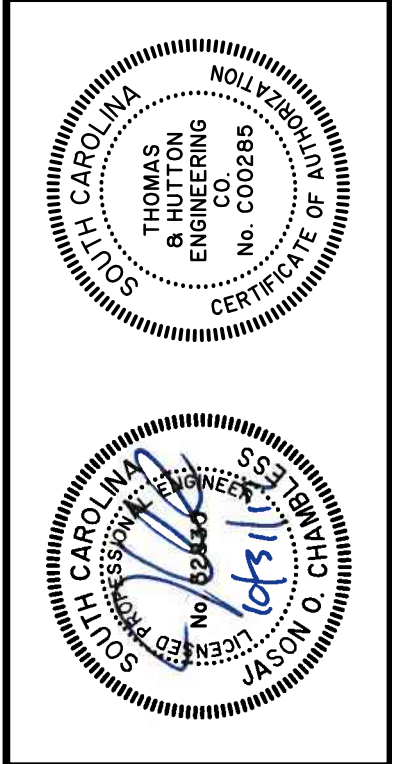
| DESCRIPTION | PLAN SYMBOL |
|---|---|
| ROCK CHECK DAM |  |
| POROUS BAFFLES |  |
| STABILIZED CONSTRUCTION ENTRANCE |  |
| CONCRETE WASHOUT |  |
| STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC |  |
| STORM DRAIN INLET PROTECTION - TYPE A SEDIMENT TUBE |  |
| STORM DRAIN INLET PROTECTION - TYPE B HARDWARE FABRIC AND STONE |  |
| STORM DRAIN INLET PROTECTION - TYPE C BLOCK AND GRAVEL |  |
| STORM DRAIN INLET PROTECTION - TYPE D RIGID INLET FILTER |  |
| STORM DRAIN INLET PROTECTION - TYPE E SURFACE COURSE CURB INLET FILTER |  |
| STORM DRAIN INLET PROTECTION - TYPE F INLET TUBE |  |
| STORM DRAIN INLET PROTECTION - TYPE G IMPERVIOUS AREA |  |
| STORM DRAIN INLET PROTECTION - CATCH BASIN INSERT |  |
| PIPE SLOPE DRAINS |  |
| TEMPORARY STREAM CROSSING |  |
| LEVEL SPREADER |  |

CONSTRUCTION SEQUENCE

| CONSTRUCTION ACTIVITY | SCHEDULE CONSIDERATION |
|---|---|
| 1 OBTAIN COPIES OF ALL PLAN APPROVALS AND OTHER APPLICABLE PERMITS. | CONTRACTOR TO HAVE ONSITE AT ALL TIMES DURING CONSTRUCTION. |
| 2 FLAG THE WORK LIMITS AND BARRICADE TREES AND MARK BUFFER AREAS FOR PROTECTION. | HAVE LOCAL REGULATORY AGENCY INSPECT TREE BARRICADES. |
| 3 HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION. | REVIEW TREE PROTECTION (BARRICADE) WITH OWNER AND LOCAL REGULATORY AGENCY. TAKE PICTURES OF ALL PROTECTED TREES AND LOCATIONS WHERE SITE WORK TIES INTO EXISTING TO DOCUMENT PREDEVELOPMENT PROCEDURES. |
| 4 INSTALL CONSTRUCTION ACCESS AND LAY DOWN AREAS | STABILIZE BARE AREAS IMMEDIATELY AND INSTALL CONSTRUCTION EXITS / ENTRANCES. |
| 5 CONSTRUCT SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SEDIMENT FENCES, AND OUTLET PROTECTION. | INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING. |
| 6 ESTABLISH RUNOFF CONTROL - DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION. | INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF CONTROL MEASURES DURING GRADING. |
| 7 LAND CLEARING AND GRADING SITE PREPARATION CUTTING, FILLING AND GRADING, SEDIMENTATION TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING. | BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL SEDIMENT AND KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW AND DISPOSAL AREAS ONLY AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES AND BUFFER AREAS FOR PRESERVATION. |
| 8 RUNOFF CONVEYANCE SYSTEM- INSTALL STORM DRAINS, STABILIZE BANKS, CHANNELS, INSTALL INLET AND OUTLET PROTECTION, SLOPE DRAINS. | WHERE NECESSARY, STABILIZE BANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF- CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING. |
| 9 INSTALL WASTEWATER COLLECTION, WATER DISTRIBUTION, AND STORM DRAINAGE SYSTEMS | APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE. |
| 10 SURFACE STABILIZATION-TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIP RAP. | APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE. |
| 11 BUILDING CONSTRUCTION- BUILDINGS UTILITIES, ROADS, ETC. | INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE. |
| 12 LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP RAP. | LAST CONSTRUCTION PHASE- STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES. |

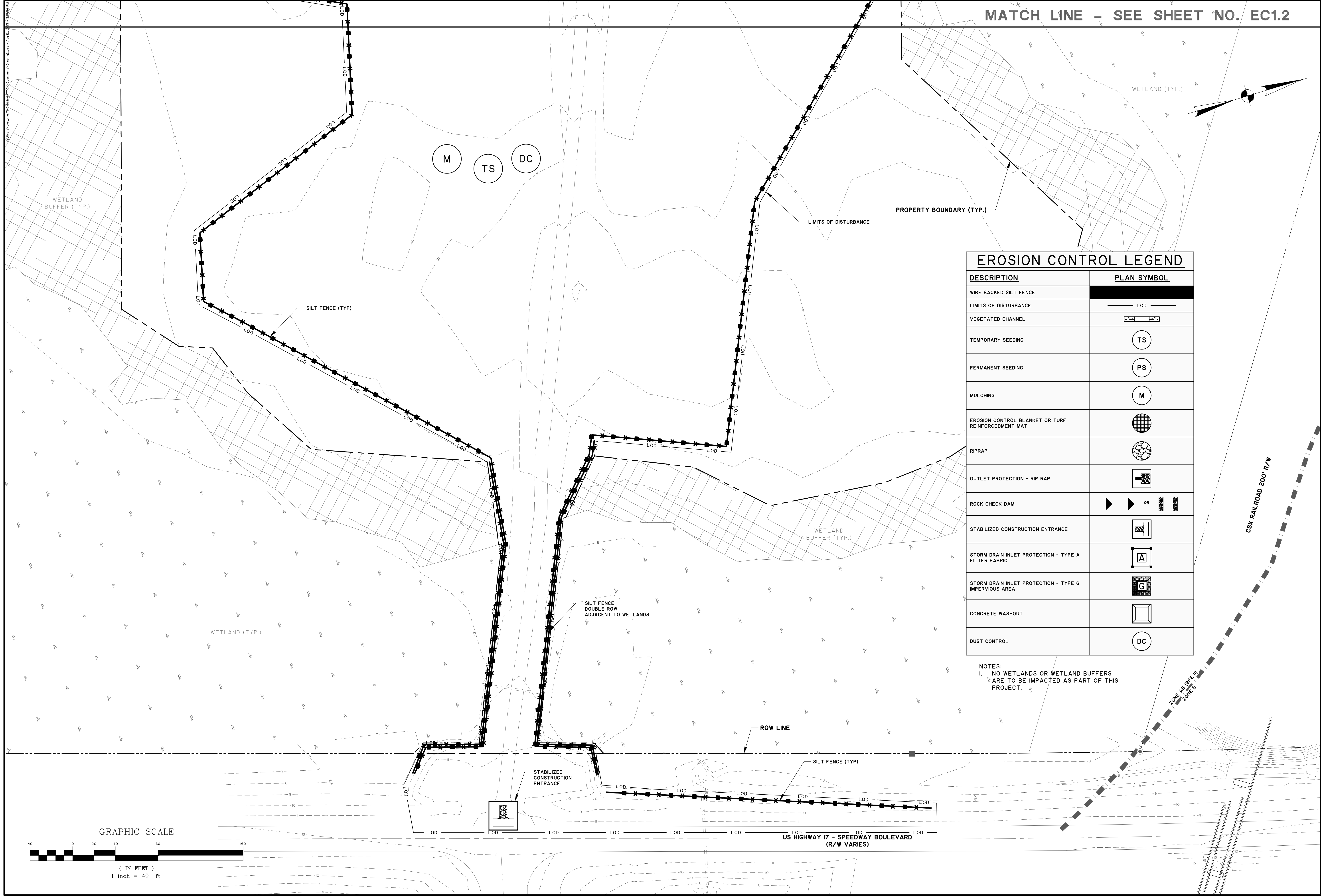
LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL

| | |
|--------|--|
| ASHTO | AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS |
| AMD | ACRYLAMIDE POLYMER |
| BFM | BONDED FIBER MATRIX |
| BMP(S) | BEST MANAGEMENT PRACTICE(S) |
| CFS | CUBIC FEET PER SECOND |
| CMP | CORRUGATED METAL PIPE |
| DHEC | DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL |
| ECB | EROSION CONTROL BLANKET |
| EPA | UNITED STATES ENVIRONMENTAL PROTECTION AGENCY |
| EPSC | EROSION PREVENTION AND SEDIMENTATION CONTROL |
| FDA | UNITED STATES FOOD AND DRUG ADMINISTRATION |
| FGM | FLEXIBLE GROWTH MATRIX |
| HDPE | HIGH DENSITY POLYETHYLENE |
| MS4 | MUNICIPAL SEPARATE STORM SEWER SYSTEM |
| MSDS | MATERIAL SAFETY DATA SHEETS |
| NPDES | NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM |
| PAM | POLYACRYLAMIDE OR POLYMER |
| RCP | REINFORCED CONCRETE PIPE |
| SCS | SOIL CONSERVATION SERVICE |
| SWPPP | STORMWATER POLLUTION PREVENTION PROGRAM |
| TRM | TURF REINFORCEMENT MAT |
| VFS | VEGETATED FILTER STRIP |

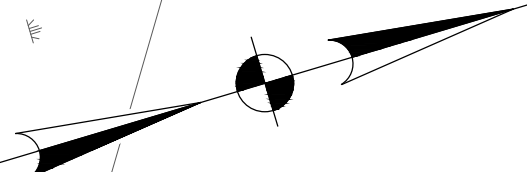
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**THOMAS
&
HUTTON**
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

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|--|----------------|
| WASTE MANAGEMENT OF SOUTH CAROLINA, INC. HARDEEVILLE, SOUTH CAROLINA | |
| HARDEEVILLE HAULING FACILITY | |
| SWPP - CHARTS | |
| JOB NO: J-2680(0.0001) | DATE: 10/29/17 |
| DRAWN: WHE | DESIGNED: WHE |
| REVIEWED: | APPROVED: JOC |
| SCALE: N/A | |



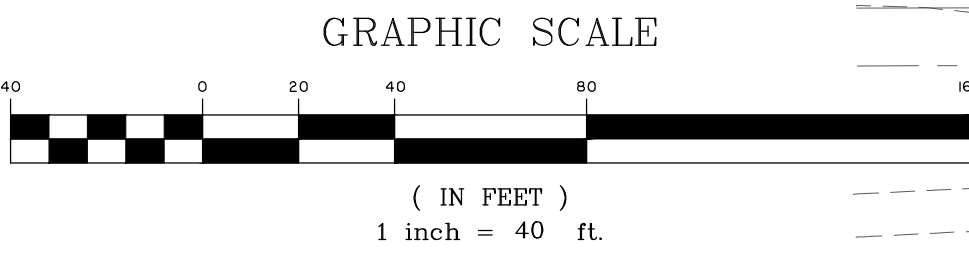
MATCH LINE - SEE SHEET NO. EC1.2



EROSION CONTROL LEGEND

| DESCRIPTION | PLAN SYMBOL |
|---|-------------|
| WIRE BACKED SILT FENCE | |
| LIMITS OF DISTURBANCE | — LOD — |
| VEGETATED CHANNEL | |
| TEMPORARY SEEDING | TS |
| PERMANENT SEEDING | PS |
| MULCHING | M |
| EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT | |
| RIPRAP | |
| OUTLET PROTECTION - RIP RAP | |
| ROCK CHECK DAM | ▶▶ or |
| STABILIZED CONSTRUCTION ENTRANCE | |
| STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC | A |
| STORM DRAIN INLET PROTECTION - TYPE G IMPERVIOUS AREA | G |
| CONCRETE WASHOUT | |
| DUST CONTROL | DC |

NOTES:
1. NO WETLANDS OR WETLAND BUFFERS ARE TO BE IMPACTED AS PART OF THIS PROJECT.



THOMAS & HUTTON ENGINEERING CO. CERTIFICATE

THOMAS & HUTTON ENGINEERING CO. No. 00285

THOMAS & HUTTON ENGINEERING CO. No. 00285

THOMAS & HUTTON ENGINEERING CO. No. 00285

| NO. | REVISIONS | BY | DATE |
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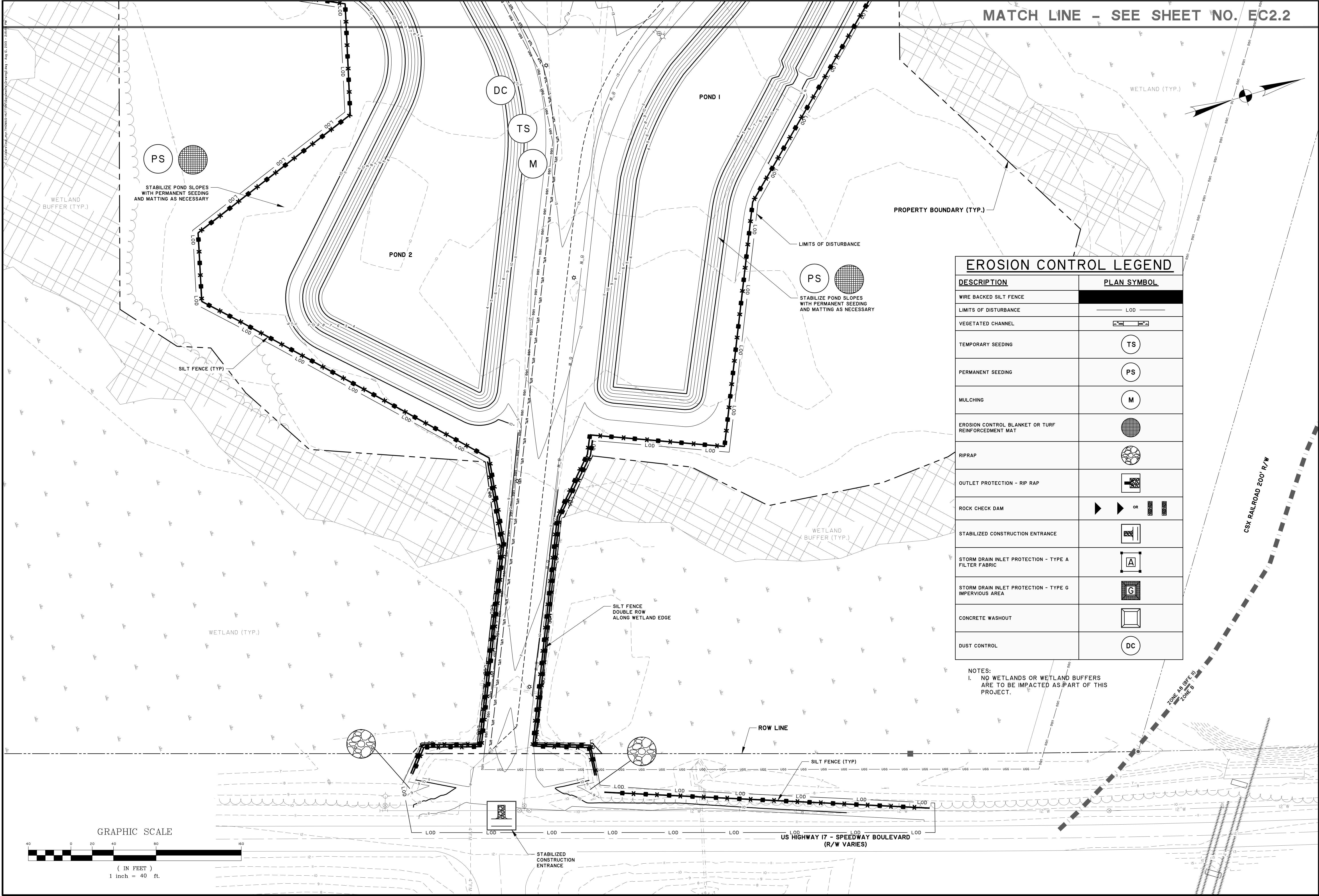
WASTE MANAGEMENT OF SOUTH CAROLINA, INC.
HARDEEVILLE, SOUTH CAROLINA

HARDEEVILLE HAULING FACILITY

SWPP - INITIAL PHASE

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | WHE |
| APPROVED: | JOC |
| SCALE: | 1" = 40' |

EC1.1

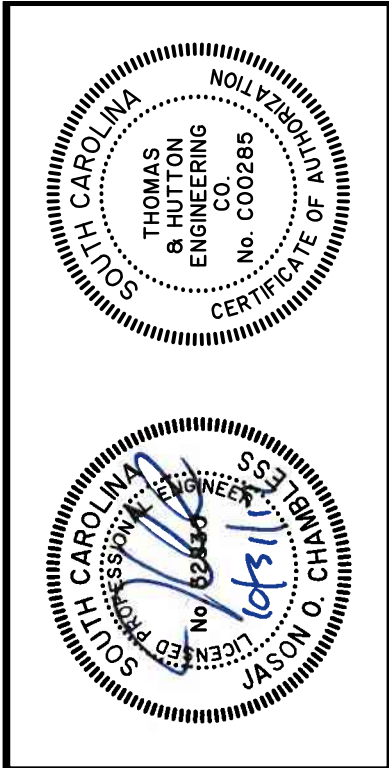
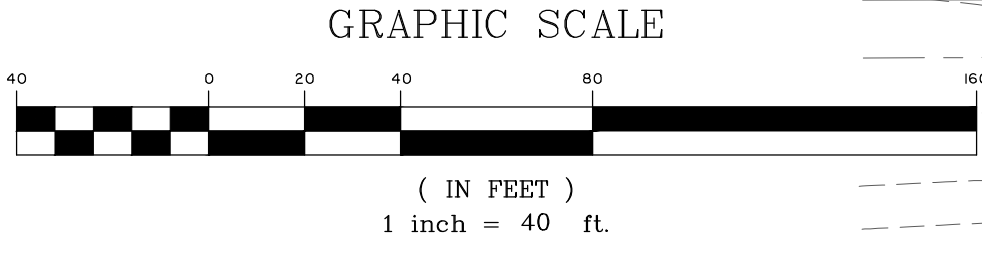


MATCH LINE - SEE SHEET NO. EC2.2

EROSION CONTROL LEGEND

| DESCRIPTION | PLAN SYMBOL |
|---|-------------|
| WIRE BACKED SILT FENCE | |
| LIMITS OF DISTURBANCE | LOD |
| VEGETATED CHANNEL | |
| TEMPORARY SEEDING | TS |
| PERMANENT SEEDING | PS |
| MULCHING | M |
| EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT | |
| RIPRAP | |
| OUTLET PROTECTION - RIP RAP | |
| ROCK CHECK DAM | OR |
| STABILIZED CONSTRUCTION ENTRANCE | |
| STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC | A |
| STORM DRAIN INLET PROTECTION - TYPE G IMPERVIOUS AREA | G |
| CONCRETE WASHOUT | |
| DUST CONTROL | DC |

NOTES:
1. NO WETLANDS OR WETLAND BUFFERS ARE TO BE IMPACTED AS PART OF THIS PROJECT.



| NO. | REVISIONS | BY | DATE |
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HARDEEVILLE, SOUTH CAROLINA

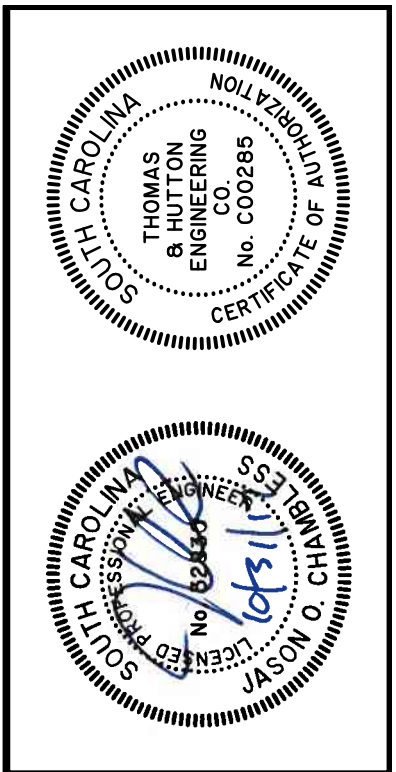
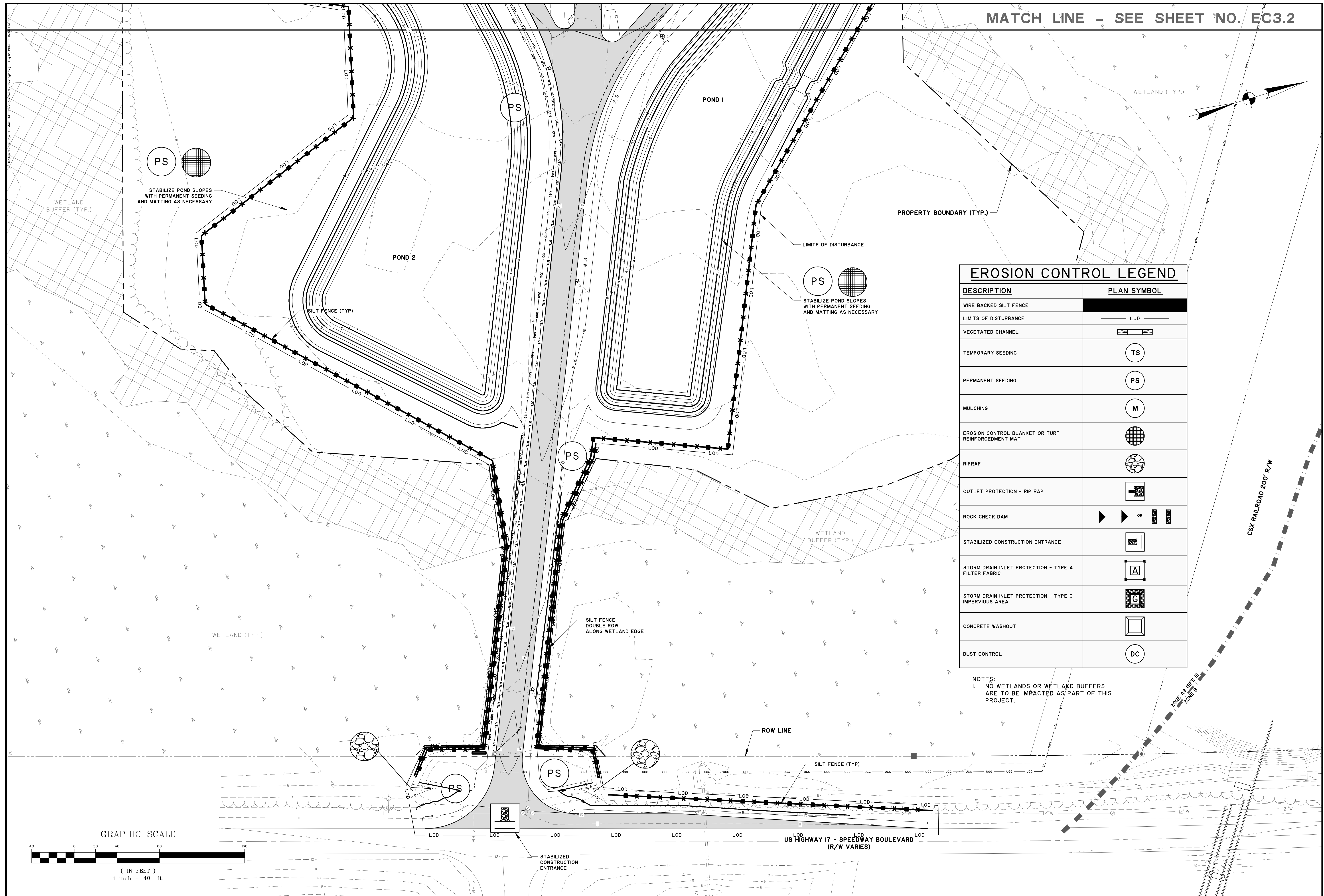
HARDEEVILLE HAULING FACILITY

SWPP - CONSTRUCTION PHASE

JOB NO: J-26810.0001
DATE: 10/31/17
DRAWN: WHE
DESIGNED: WHE
REVIEWED:
APPROVED: JOC
SCALE: 1" = 40'

EC2.1

PERMIT SET - FOR REVIEW PURPOSES ONLY

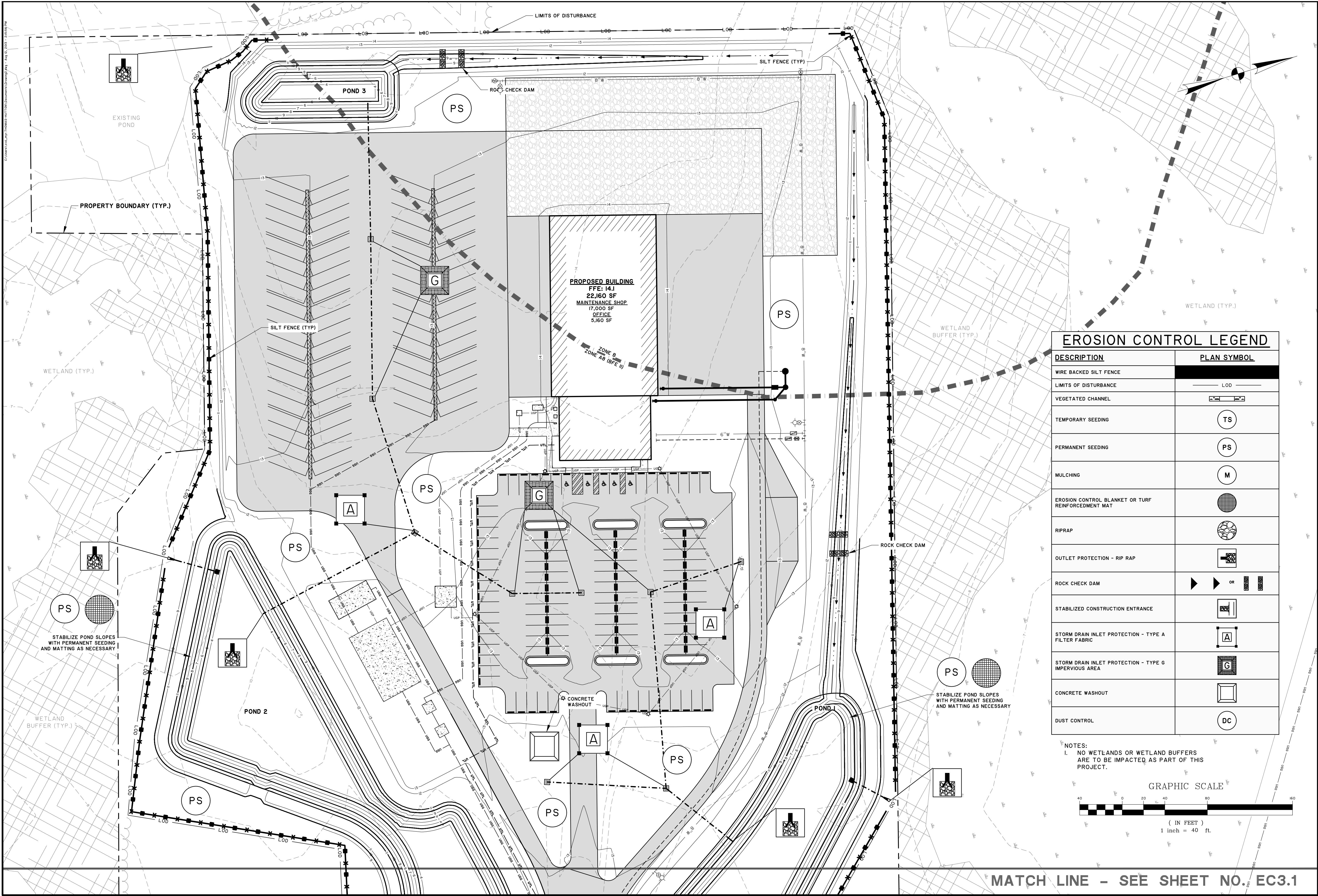
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|---|
| WASTE MANAGEMENT OF SOUTH CAROLINA, INC. HARDEVILLE, SOUTH CAROLINA |
| HARDEVILLE HAULING FACILITY |
| SWPP - STABILIZATION PHASE |

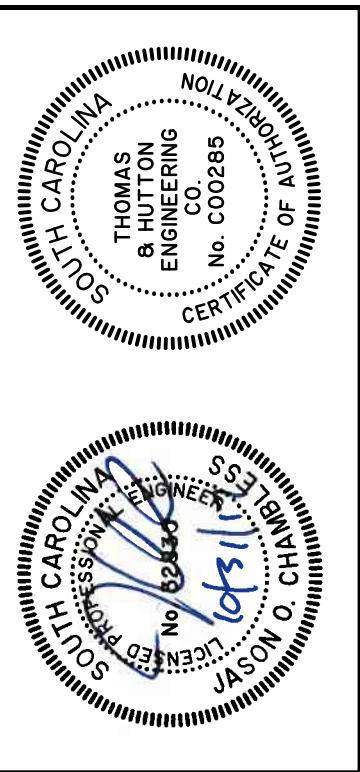
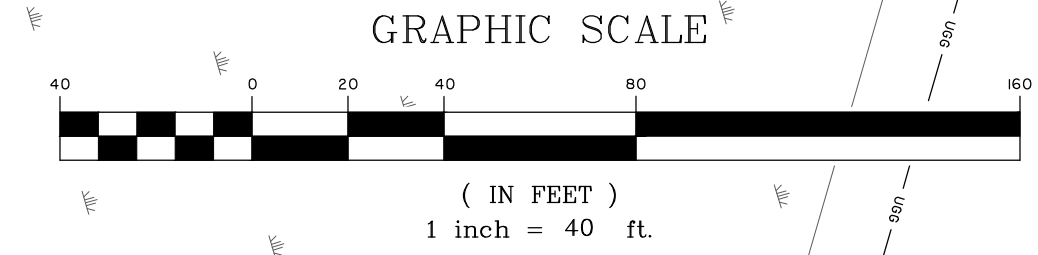
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|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | 1" = 40' |

EC3.1



| EROSION CONTROL LEGEND | |
|---|-------------|
| DESCRIPTION | PLAN SYMBOL |
| WIRE BACKED SILT FENCE | |
| LIMITS OF DISTURBANCE | |
| VEGETATED CHANNEL | |
| TEMPORARY SEEDING | |
| PERMANENT SEEDING | |
| MULCHING | |
| EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT | |
| RIPRAP | |
| OUTLET PROTECTION - RIP RAP | |
| ROCK CHECK DAM | |
| STABILIZED CONSTRUCTION ENTRANCE | |
| STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC | |
| STORM DRAIN INLET PROTECTION - TYPE G IMPERVIOUS AREA | |
| CONCRETE WASHOUT | |
| DUST CONTROL | |

NOTES:
 1. NO WETLANDS OR WETLAND BUFFERS ARE TO BE IMPACTED AS PART OF THIS PROJECT.



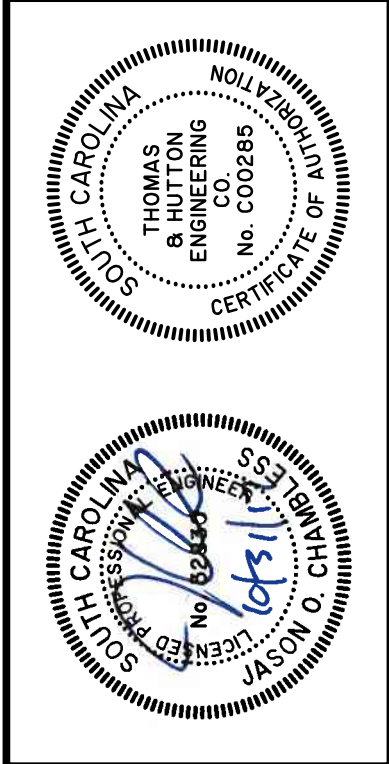
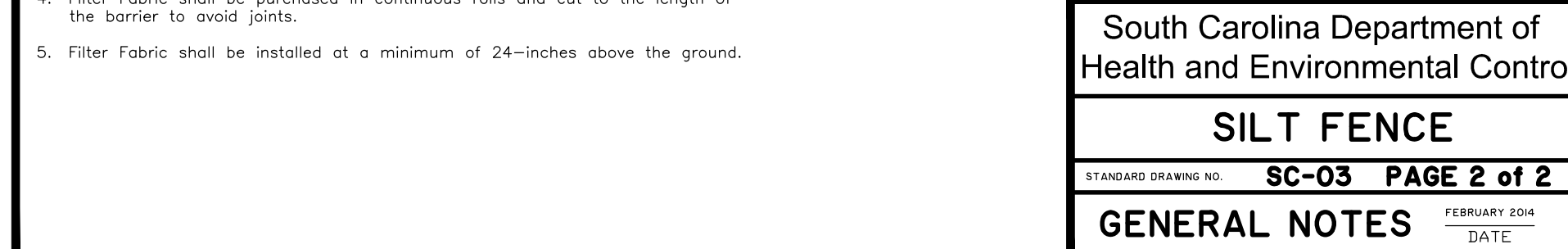
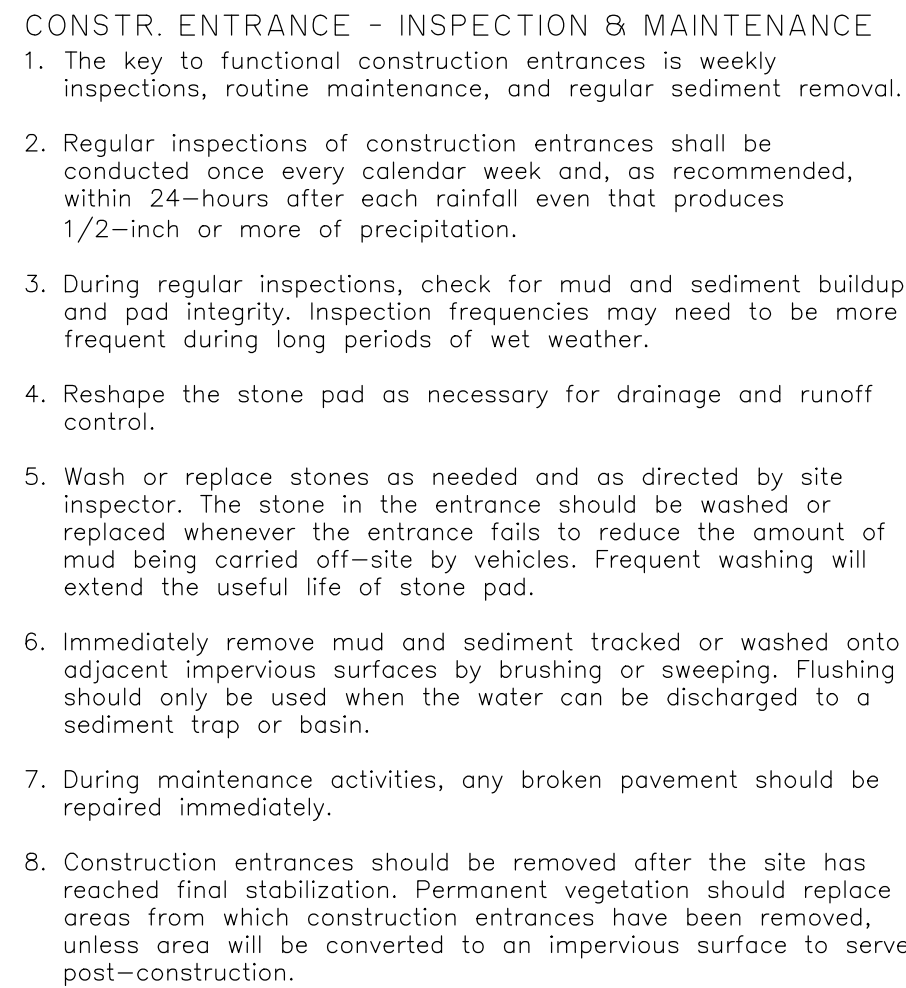
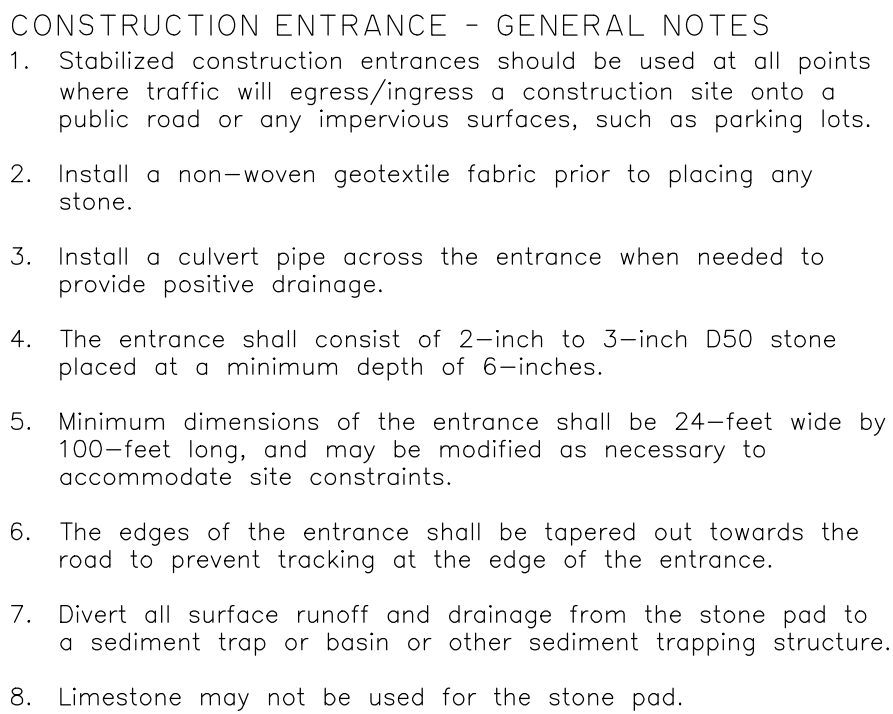
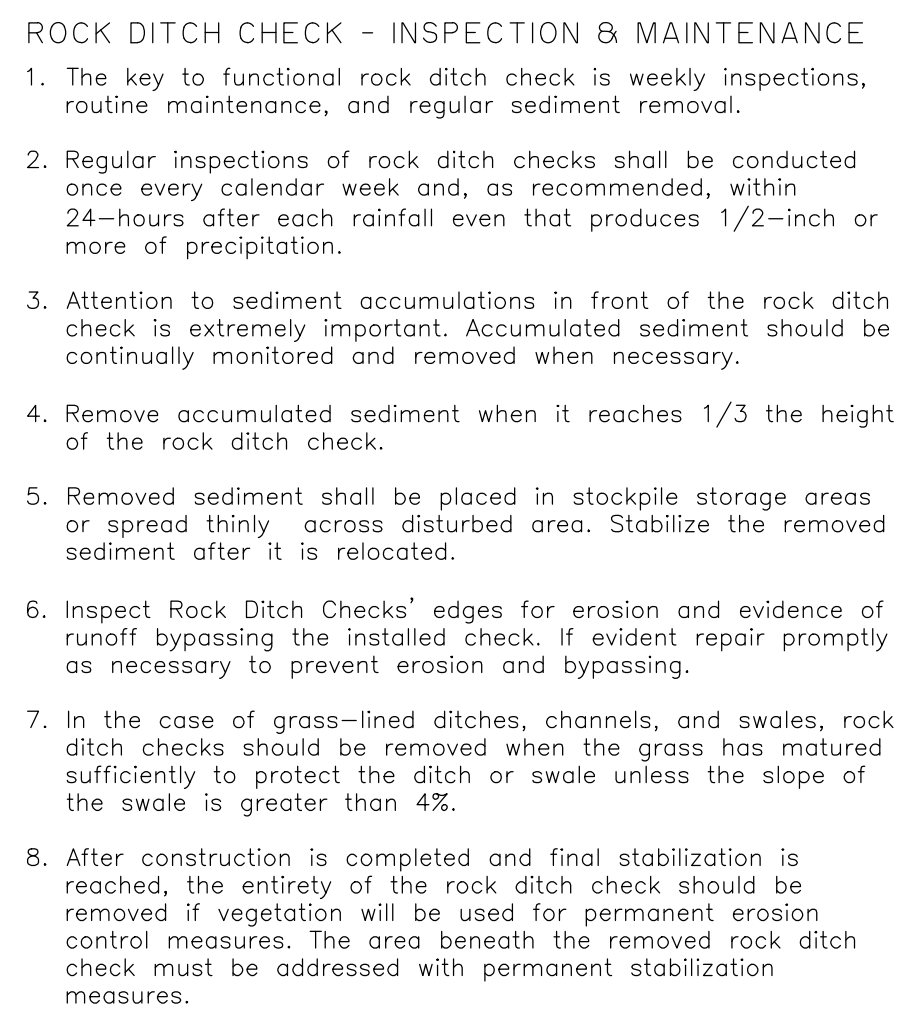
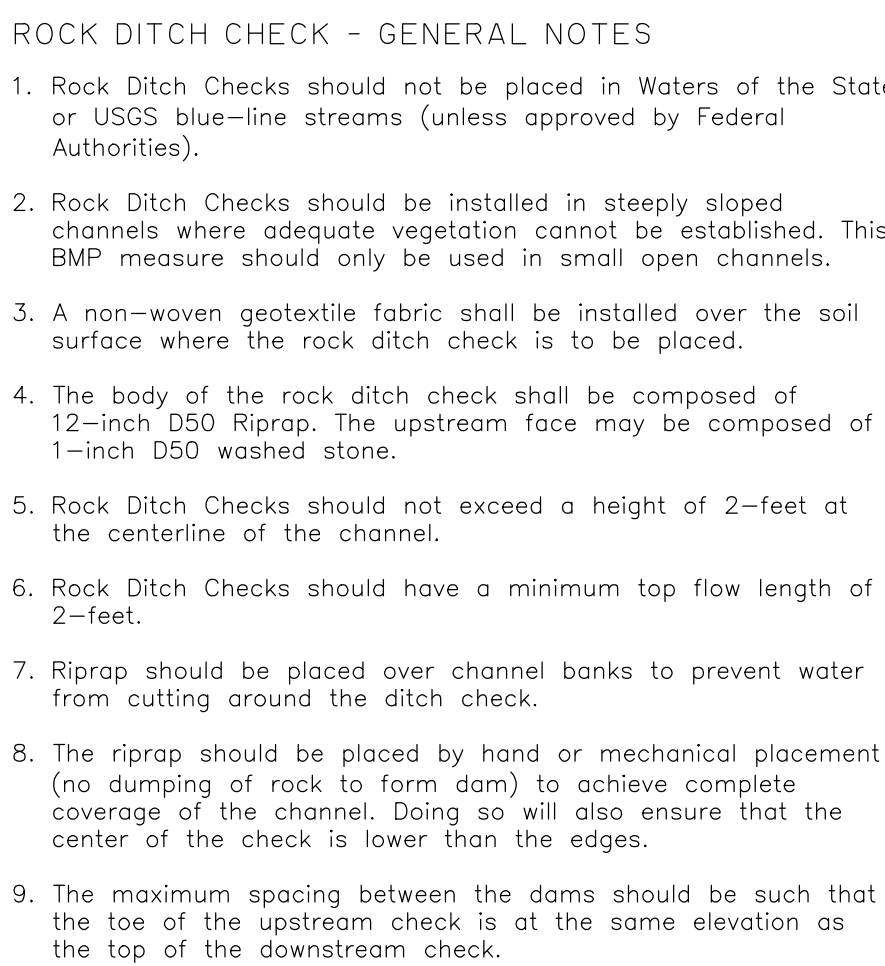
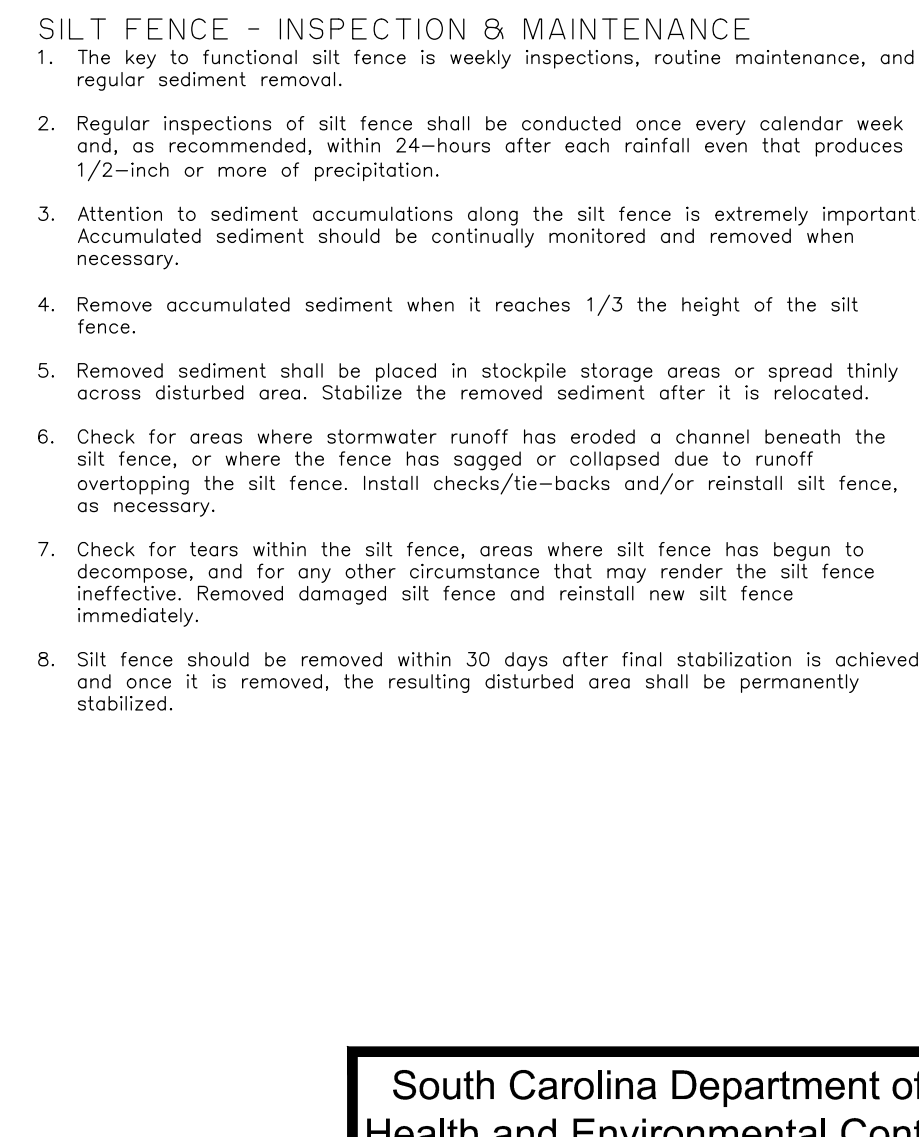
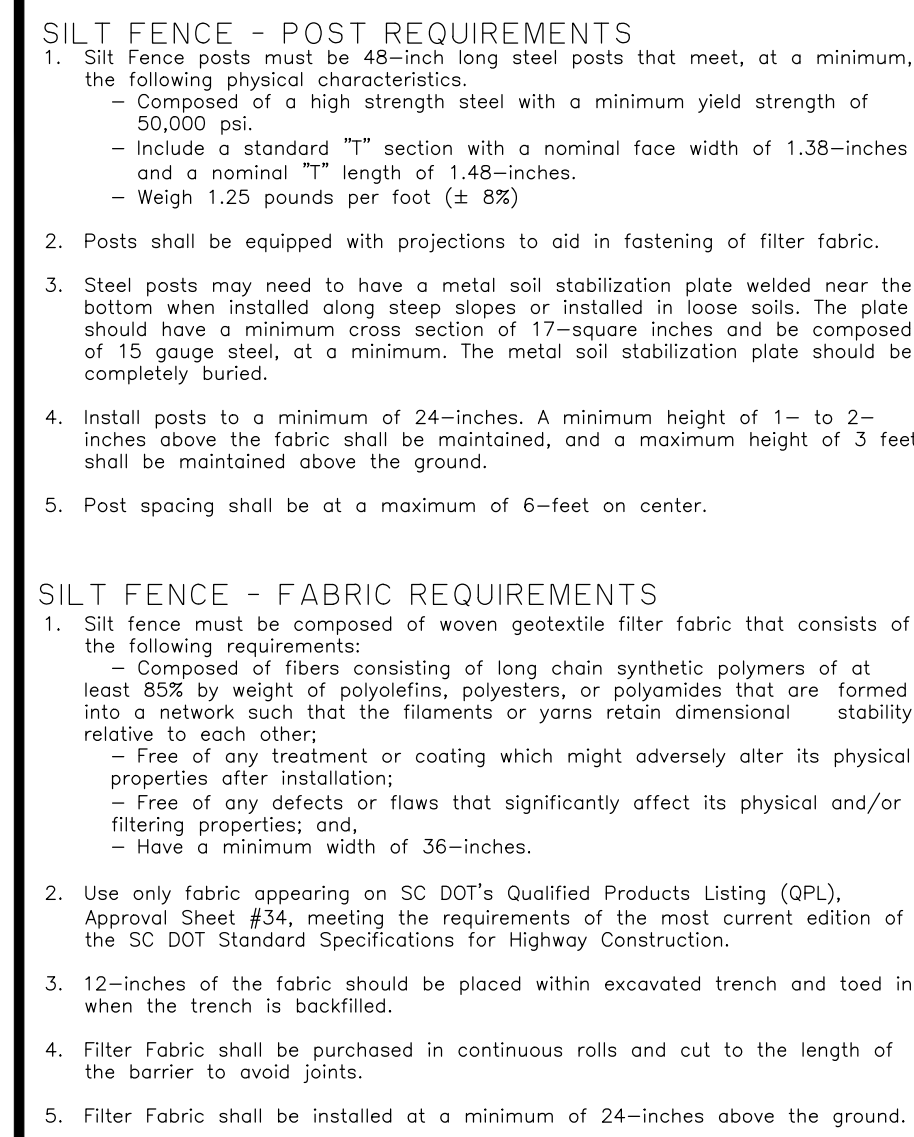
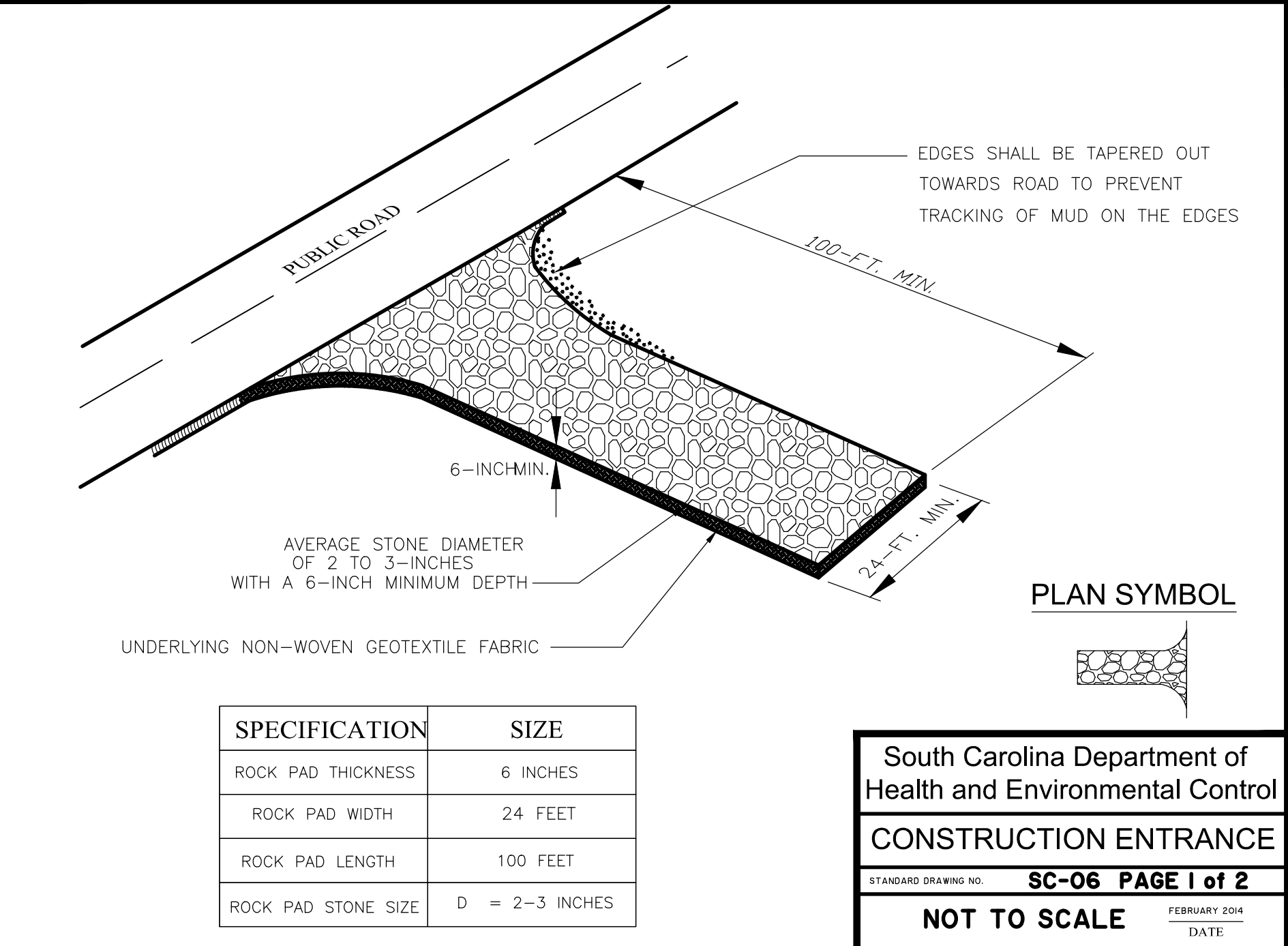
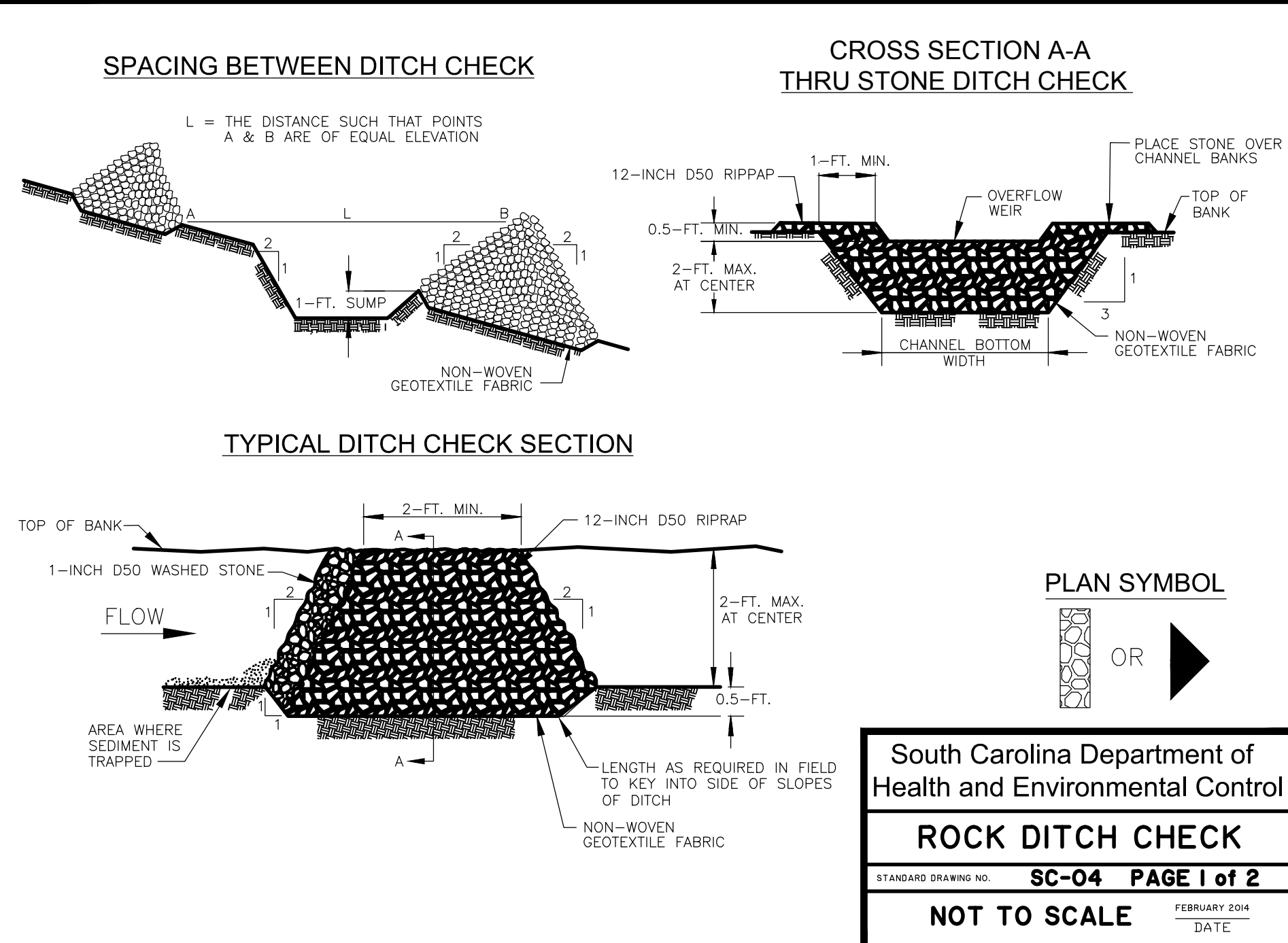
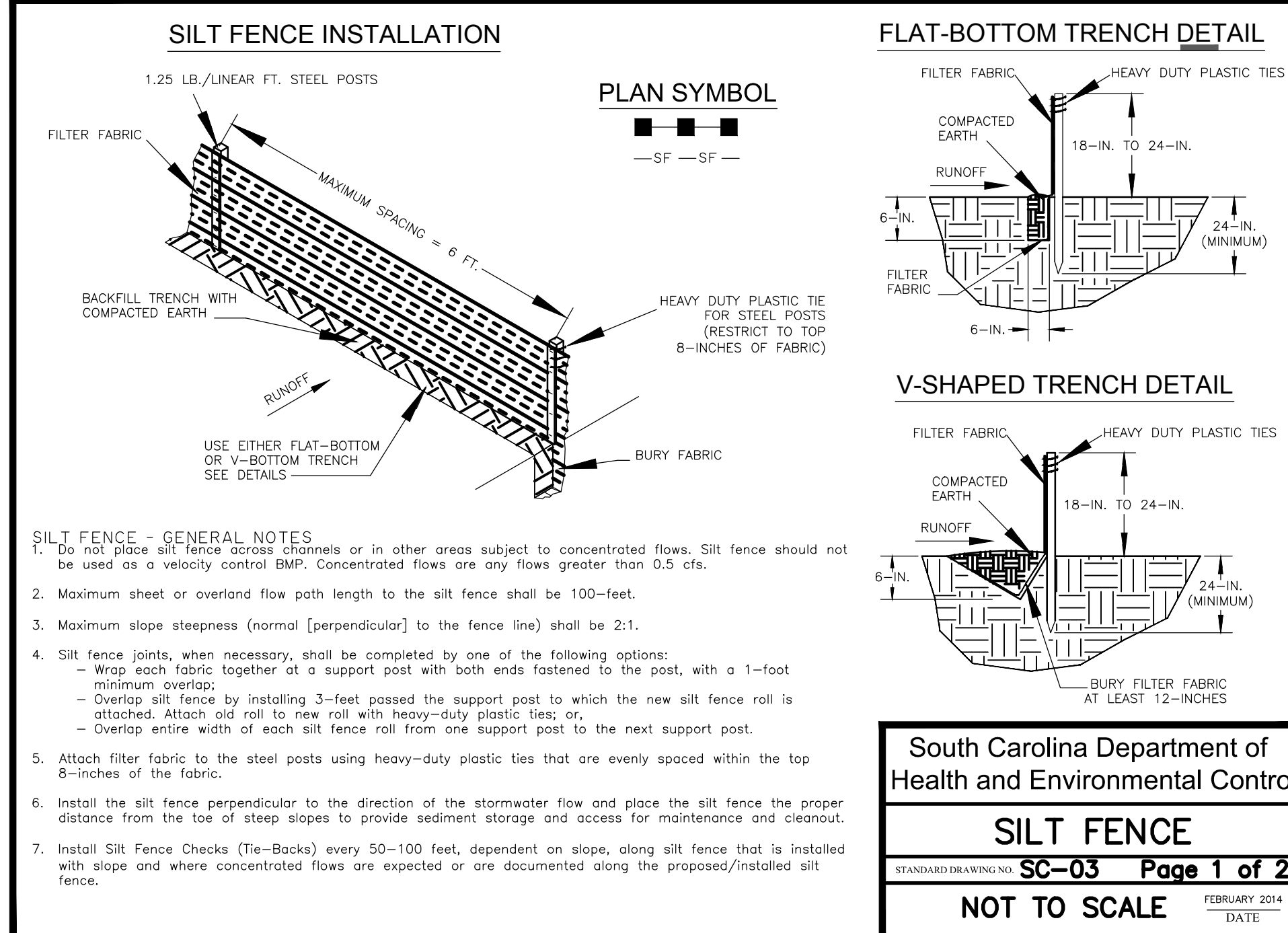
| NO. | REVISIONS | BY | DATE |
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WASTE MANAGEMENT OF SOUTH CAROLINA, INC.
 HARDEEVILLE, SOUTH CAROLINA
HARDEEVILLE HAULING FACILITY
SWPP - STABILIZATION PHASE

JOB NO: J-26810.0001
 DATE: 10/31/17
 DRAWN: WHE
 DESIGNED: WHE
 REVIEWED:
 APPROVED: JOC
 SCALE: 1" = 40'

EC3.2

[illegible]

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | N/A |

EC4.1

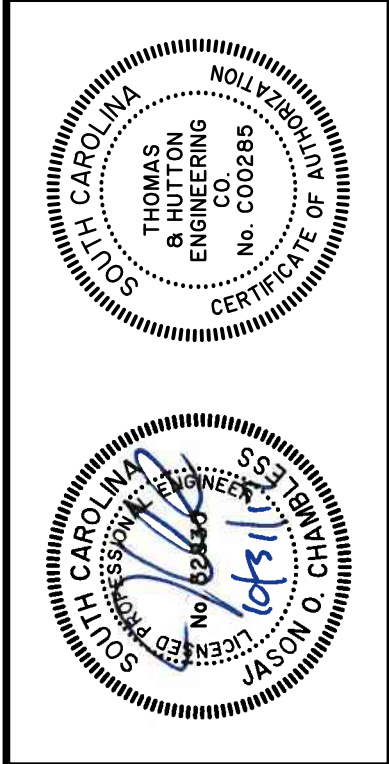
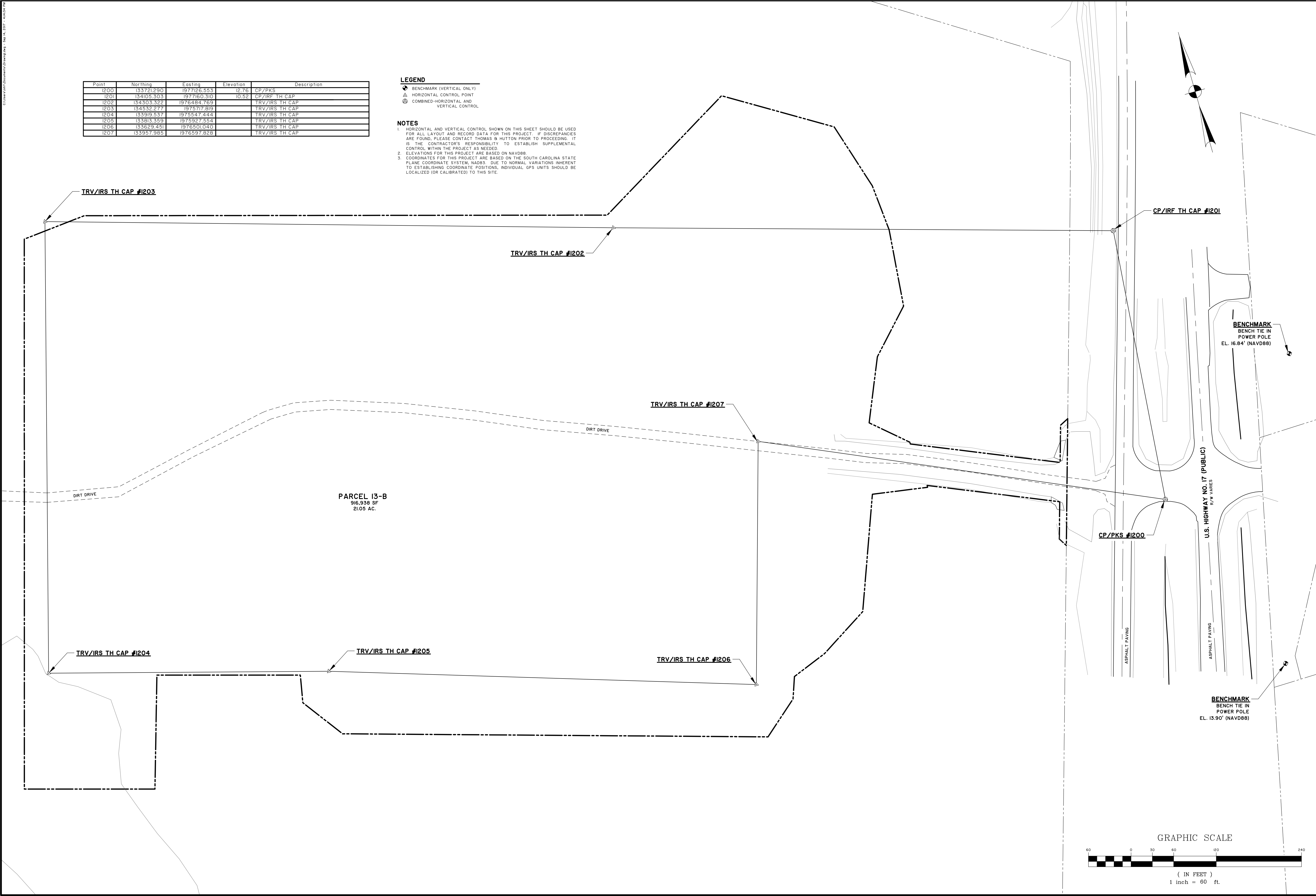
EC4.2

C:\Users\jvh\Documents\Drawings\dwg - Map 13-207 - 10x15.dwg

| Point | Northing | Eastng | Elevation | Description |
|-------|------------|-------------|-----------|----------------|
| 1200 | 133721.290 | 1977126.553 | 12.76 | CP/PKS |
| 1201 | 134105.303 | 1977160.310 | 10.52 | CP/IRF TH CAP |
| 1202 | 134303.322 | 1976484.789 | | TRV/IRS TH CAP |
| 1203 | 134532.277 | 1975717.819 | | TRV/IRS TH CAP |
| 1204 | 133919.537 | 1975547.444 | | TRV/IRS TH CAP |
| 1205 | 133813.359 | 1975927.554 | | TRV/IRS TH CAP |
| 1206 | 133629.481 | 1976501.040 | | TRV/IRS TH CAP |
| 1207 | 133957.385 | 1976397.828 | | TRV/IRS TH CAP |

LEGEND
⬮ BENCHMARK (VERTICAL ONLY)
△ HORIZONTAL CONTROL POINT
⊕ COMBINED-HORIZONTAL AND VERTICAL CONTROL

NOTES
1. HORIZONTAL AND VERTICAL CONTROL SHOWN ON THIS SHEET SHOULD BE USED FOR ALL LAYOUT AND RECORD DATA FOR THIS PROJECT. IF DISCREPANCIES ARE FOUND, PLEASE CONTACT THOMAS & HUTTON PRIOR TO PROCEEDING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH SUPPLEMENTAL CONTROL WITHIN THE PROJECT AS NEEDED.
2. ELEVATIONS FOR THIS PROJECT ARE BASED ON NAVD88.
3. COORDINATES FOR THIS PROJECT ARE BASED ON THE SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM, NAD83. DUE TO NORMAL VARIATIONS INHERENT TO ESTABLISHING COORDINATE POSITIONS, INDIVIDUAL GPS UNITS SHOULD BE LOCALIZED (OR CALIBRATED) TO THIS SITE.



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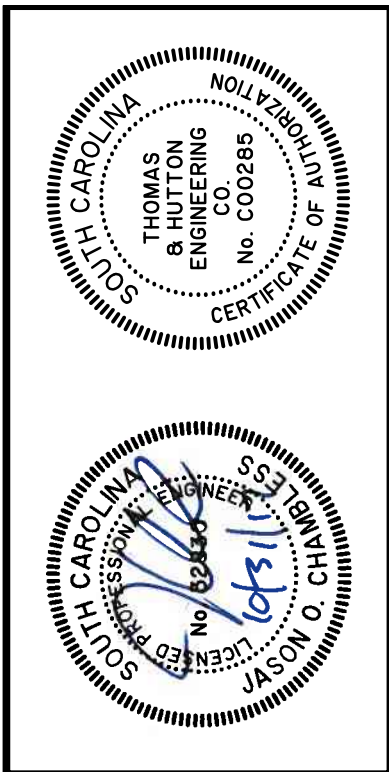
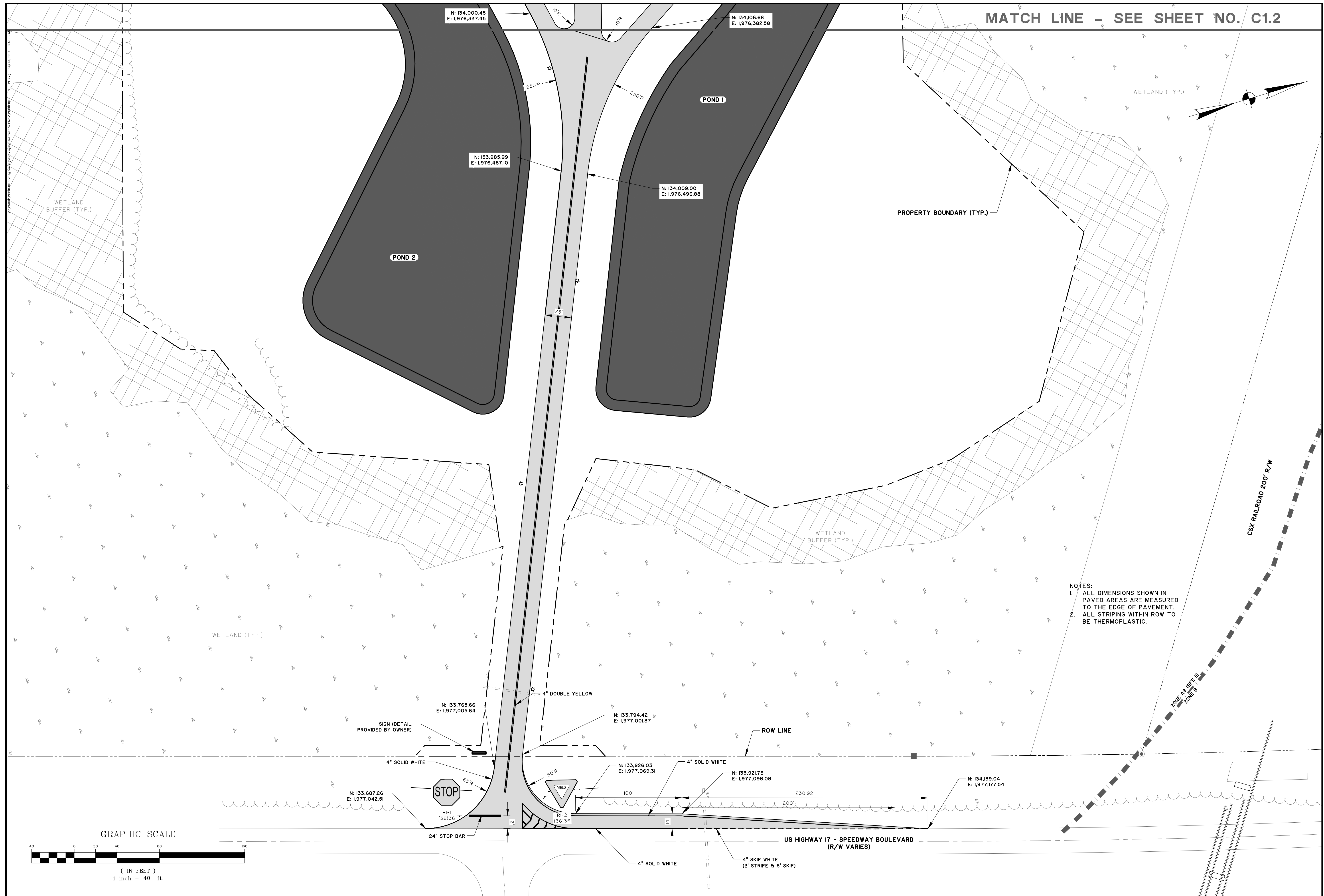
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HARDEEVILLE, SOUTH CAROLINA
HARDEEVILLE HAULING FACILITY
SURVEY CONTROL

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | JOC |
| APPROVED: | JOC |
| SCALE: | 1" = 60' |

V0.1

PERMIT SET - FOR REVIEW PURPOSES ONLY

[illegible]

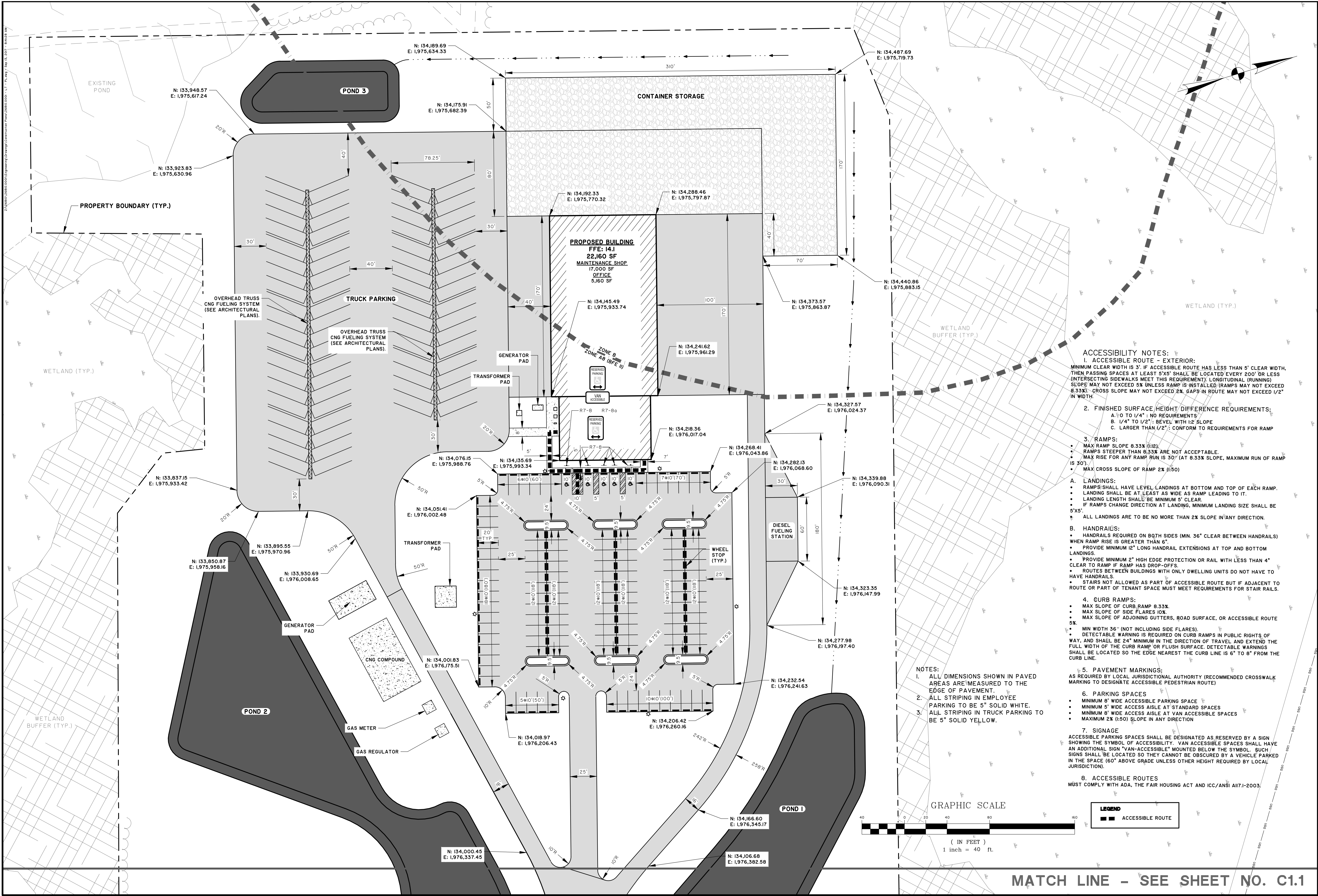
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| <p>WASTE MANAGEMENT OF SOUTH CAROLINA, INC.</p> <p>HARDEEVILLE, SOUTH CAROLINA</p> | <p>HARDEEVILLE HAULING FACILITY</p> | <p>SITE LAYOUT, STRIPING, AND SIGNAGE</p> |
|---|-------------------------------------|---|

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | 1" = 40' |

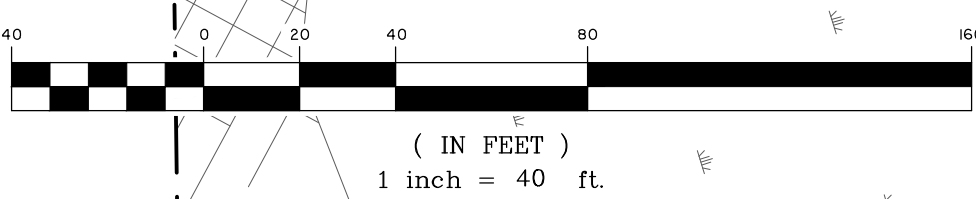
C1.1



- ACCESSIBILITY NOTES:**
- ACCESSIBLE ROUTE - EXTERIOR:**
MINIMUM CLEAR WIDTH IS 3'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'X5' SHALL BE LOCATED EVERY 200' OR LESS (INTERSECTING SIDEWALKS MEET THIS REQUIREMENT). LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%). CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.
 - FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS:**
A. 0 TO 1/4" : NO REQUIREMENTS
B. 1/4" TO 1/2" : BEVEL WITH 1:2 SLOPE
C. LARGER THAN 1/2" : CONFORM TO REQUIREMENTS FOR RAMP
 - RAMPS:**
 - MAX RAMP SLOPE 8.33% (1:12).
 - RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE.
 - MAX RISE FOR ANY RAMP RUN IS 30" (AT 8.33% SLOPE, MAXIMUM RUN OF RAMP IS 30').
 - MAX CROSS SLOPE OF RAMP 2% (1:50)
 - LANDINGS:**
 - RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP.
 - LANDING SHALL BE AT LEAST AS WIDE AS RAMP LEADING TO IT.
 - LANDING LENGTH SHALL BE MINIMUM 5' CLEAR.
 - IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM LANDING SIZE SHALL BE 5'X5'.
 - ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
 - HANDRAILS:**
 - HANDRAILS REQUIRED ON BOTH SIDES (MIN. 36" CLEAR BETWEEN HANDRAILS) WHEN RAMP RISE IS GREATER THAN 6".
 - PROVIDE MINIMUM 12" LONG HANDRAIL EXTENSIONS AT TOP AND BOTTOM LANDINGS.
 - PROVIDE MINIMUM 2" HIGH EDGE PROTECTION OR RAIL WITH LESS THAN 4" CLEAR TO RAMP IF RAMP HAS DROP-OFFS.
 - ROUTES BETWEEN BUILDINGS WITH ONLY DWELLING UNITS DO NOT HAVE TO HAVE HANDRAILS.
 - STAIRS NOT ALLOWED AS PART OF ACCESSIBLE ROUTE BUT IF ADJACENT TO ROUTE OR PART OF TENANT SPACE MUST MEET REQUIREMENTS FOR STAIR RAILS.
 - CURB RAMPS:**
 - MAX SLOPE OF CURB RAMP 8.33%.
 - MAX SLOPE OF SIDE FLARES 10%.
 - MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE 5%.
 - MIN WIDTH 36" (NOT INCLUDING SIDE FLARES).
 - DETECTABLE WARNING IS REQUIRED ON CURB RAMPS IN PUBLIC RIGHTS OF WAY, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.
 - PAVEMENT MARKINGS:**
AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)
 - PARKING SPACES**
 - MINIMUM 8' WIDE ACCESSIBLE PARKING SPACE
 - MINIMUM 5' WIDE ACCESS AISLE AT STANDARD SPACES
 - MINIMUM 8' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES
 - MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION
 - SIGNAGE**
ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL. SUCH SIGNS SHALL BE LOCATED SO THEY CANNOT BE OBSURED BY A VEHICLE PARKED IN THE SPACE (60" ABOVE GRADE UNLESS OTHER HEIGHT REQUIRED BY LOCAL JURISDICTION).
 - ACCESSIBLE ROUTES**
MUST COMPLY WITH ADA, THE FAIR HOUSING ACT AND ICC/ANSI A117.1-2003.

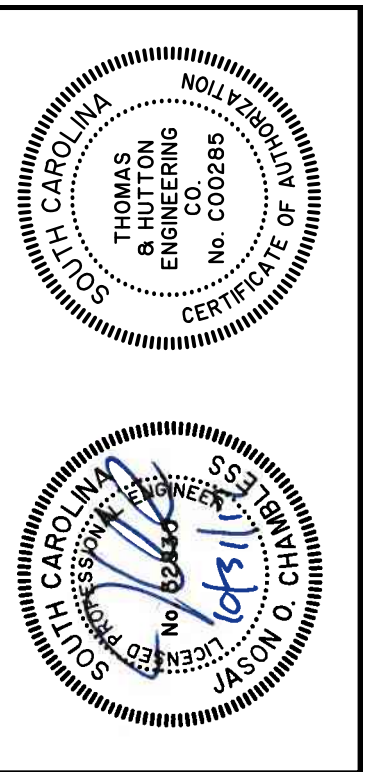
- NOTES:**
- ALL DIMENSIONS SHOWN IN PAVED AREAS ARE MEASURED TO THE EDGE OF PAVEMENT.
 - ALL STRIPING IN EMPLOYEE PARKING TO BE 5" SOLID WHITE.
 - ALL STRIPING IN TRUCK PARKING TO BE 5" SOLID YELLOW.

GRAPHIC SCALE



LEGEND
■ ACCESSIBLE ROUTE

MATCH LINE - SEE SHEET NO. C1.1



| NO. | REVISIONS | BY | DATE |
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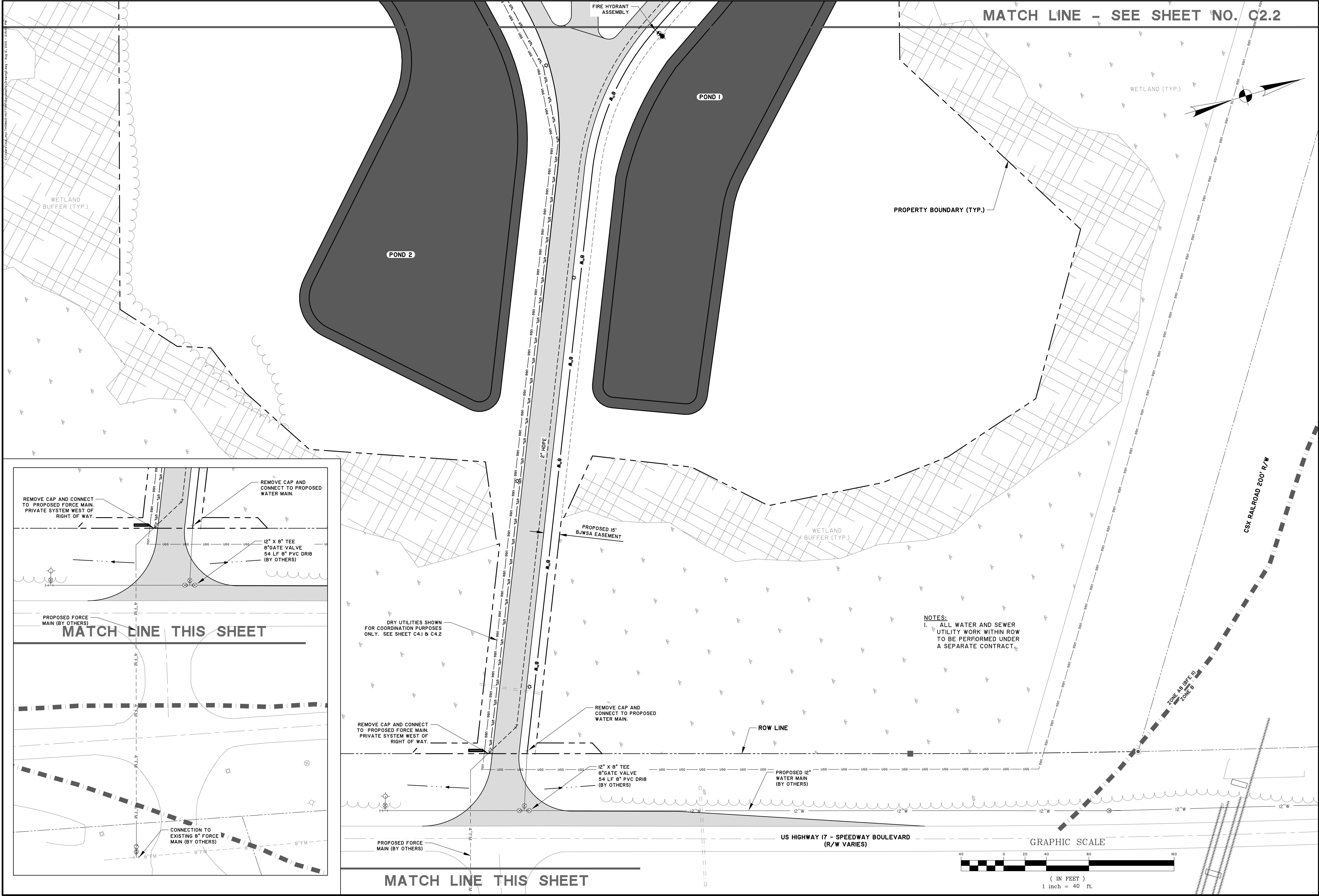
WASTE MANAGEMENT OF SOUTH CAROLINA, INC.
HARDEEVILLE, SOUTH CAROLINA

HARDEEVILLE HAULING FACILITY

SITE LAYOUT, STRIPING, AND SIGNAGE

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | 1" = 40' |

C1.2



THOMAS & HUTTON ENGINEERING CO. CERTIFICATE

THOMAS & HUTTON ENGINEERING CO. CERTIFICATE

NO. 18340

DATE: 10/31/17

| NO. | REVISIONS | BY | DATE |
|-----|-----------|----|------|
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WASTE MANAGEMENT OF SOUTH CAROLINA, INC.

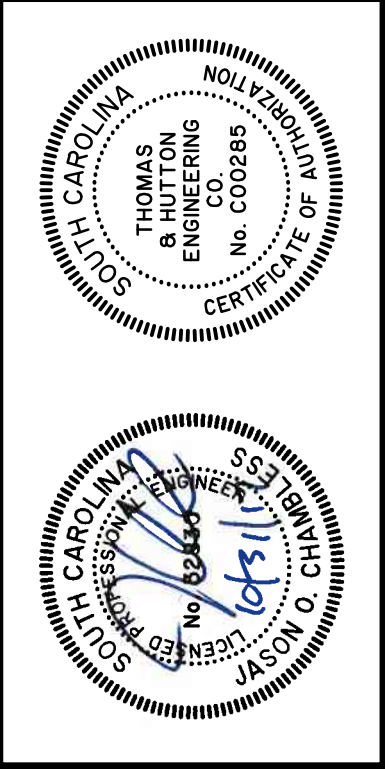
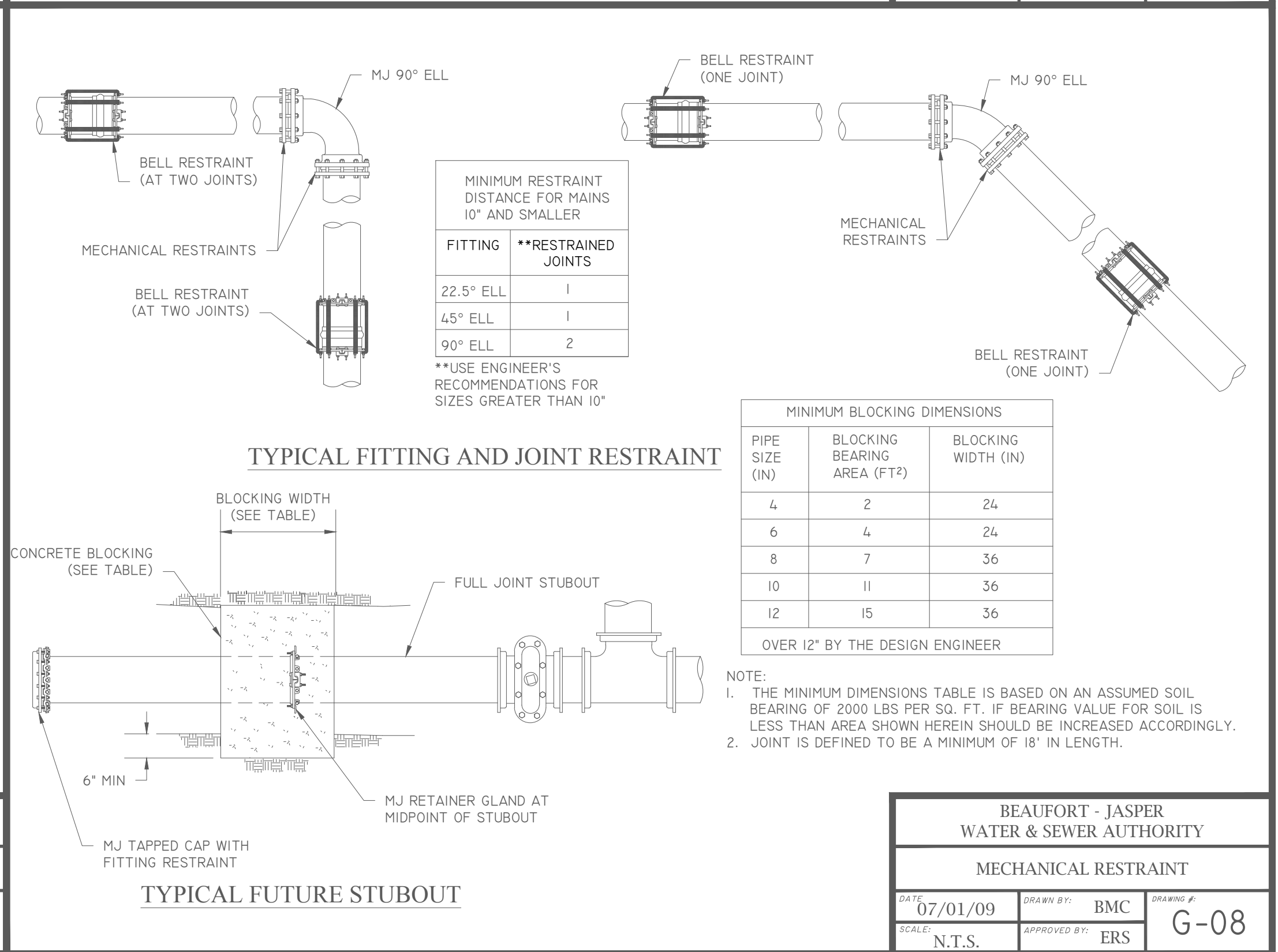
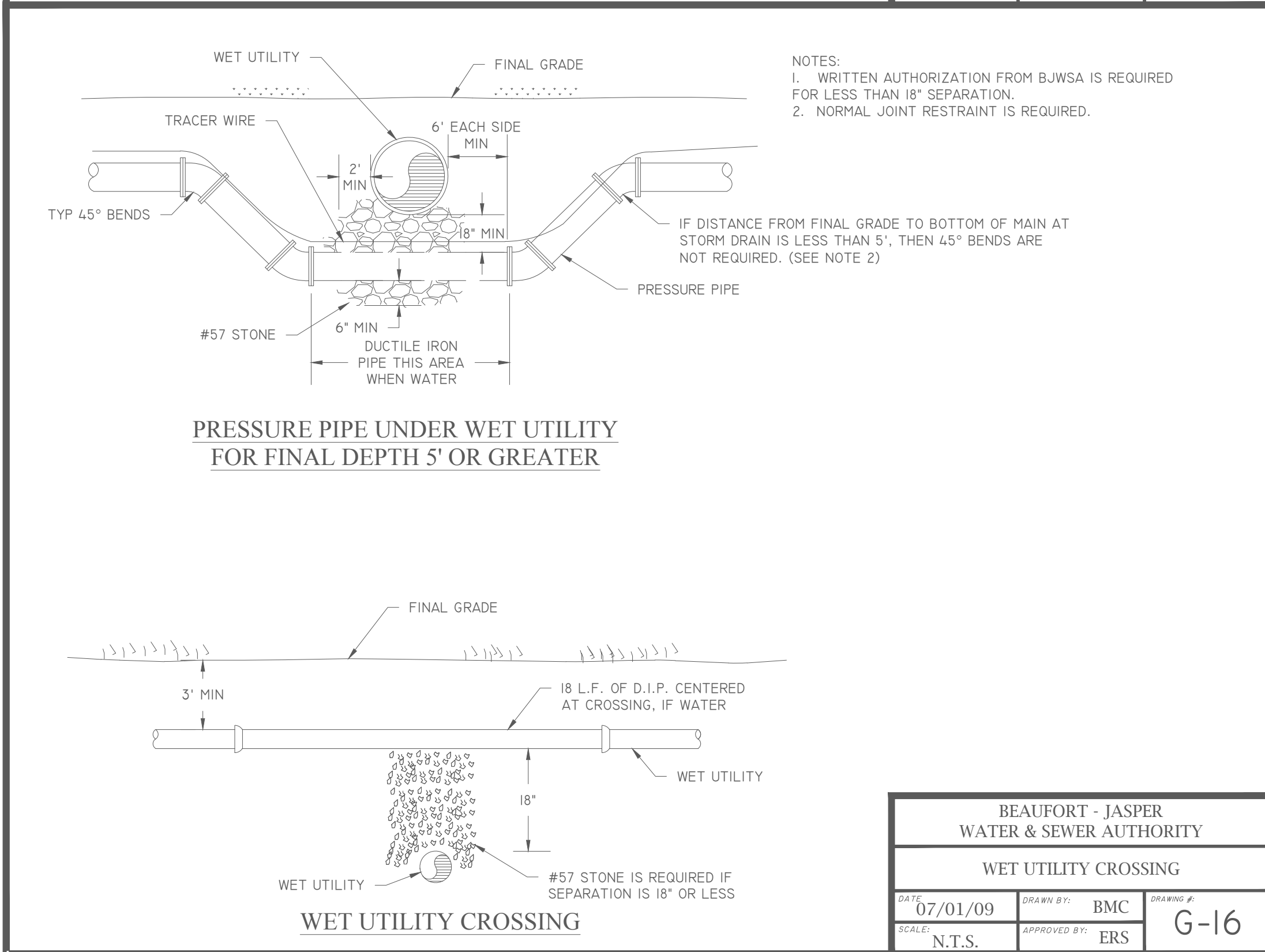
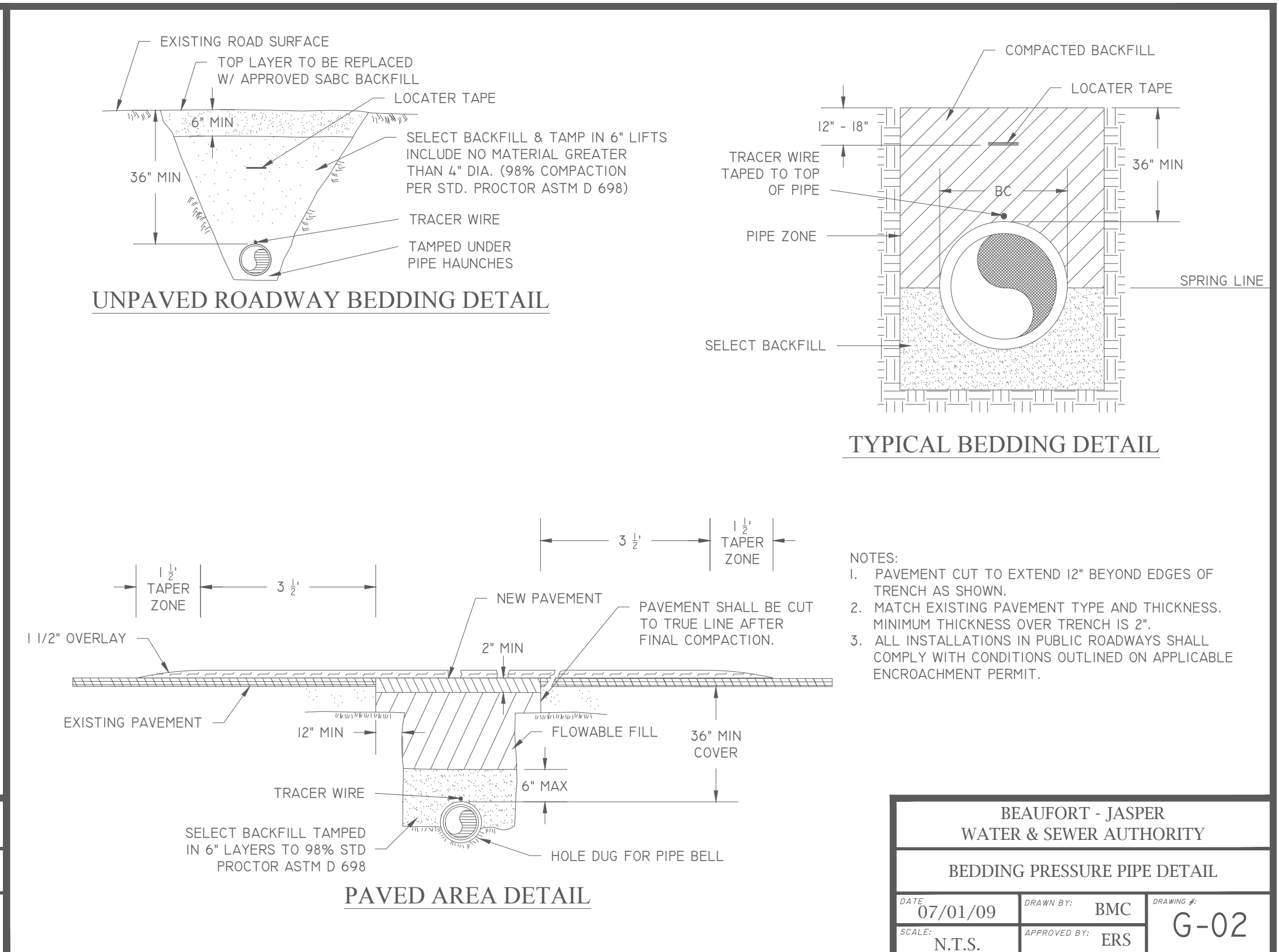
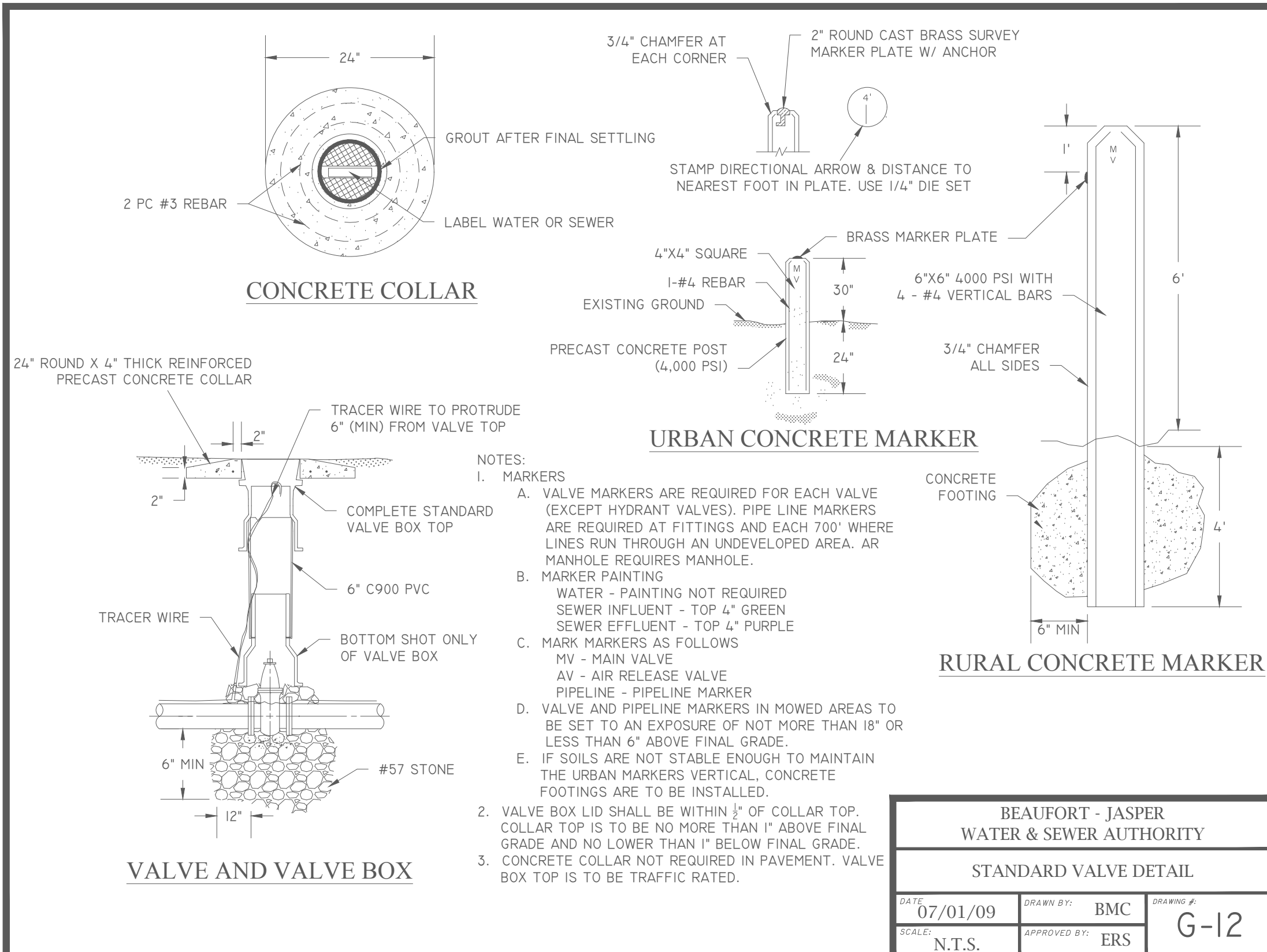
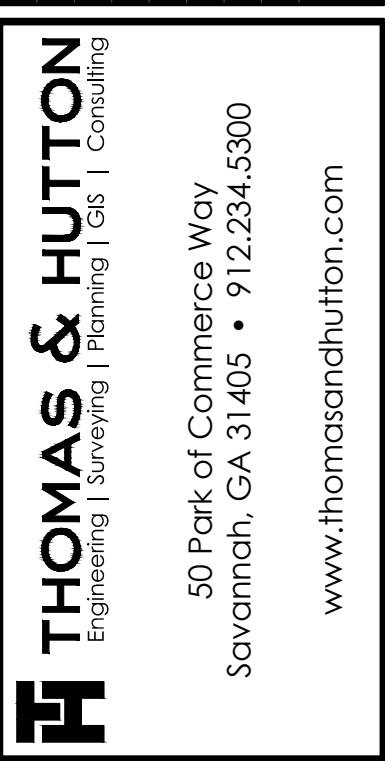
HARDEEVILLE, SOUTH CAROLINA

HARDEEVILLE HAULING FACILITY

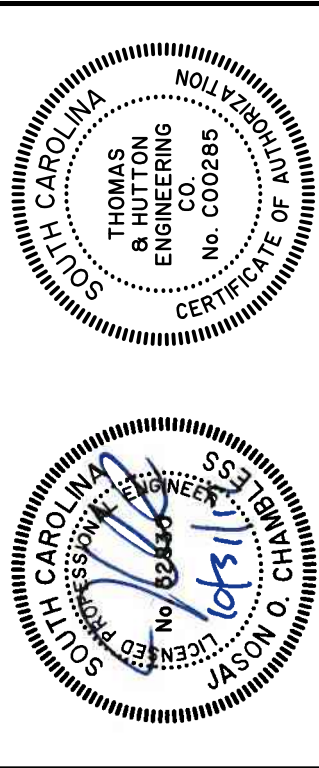
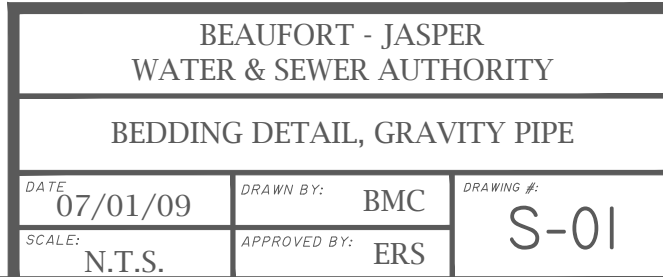
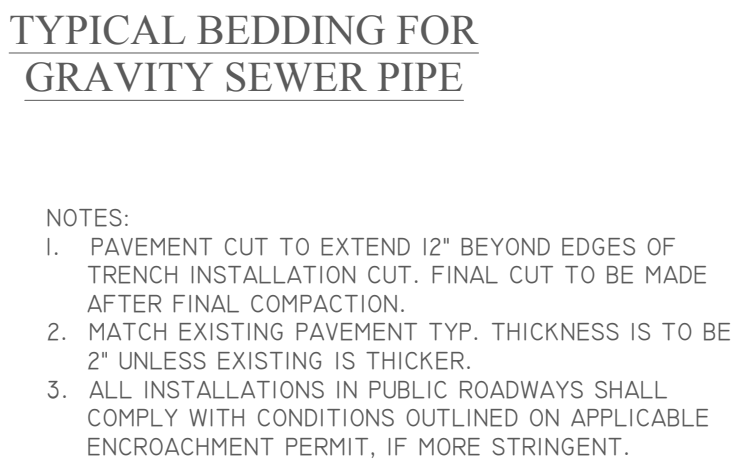
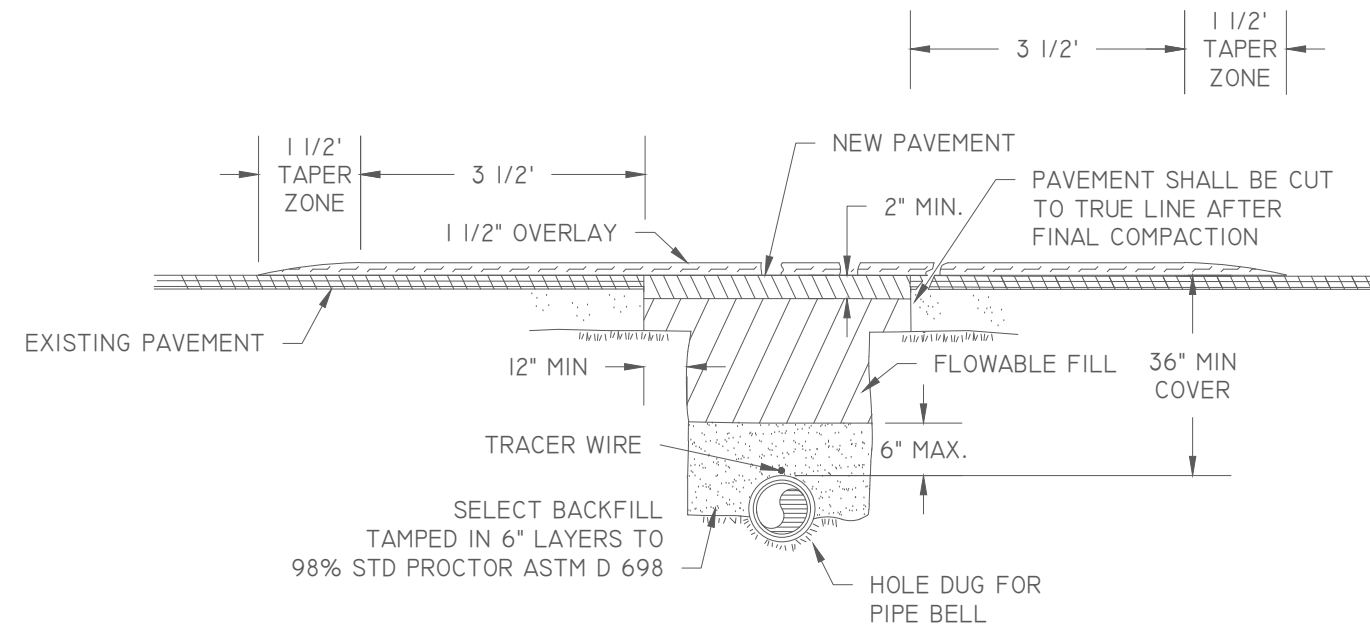
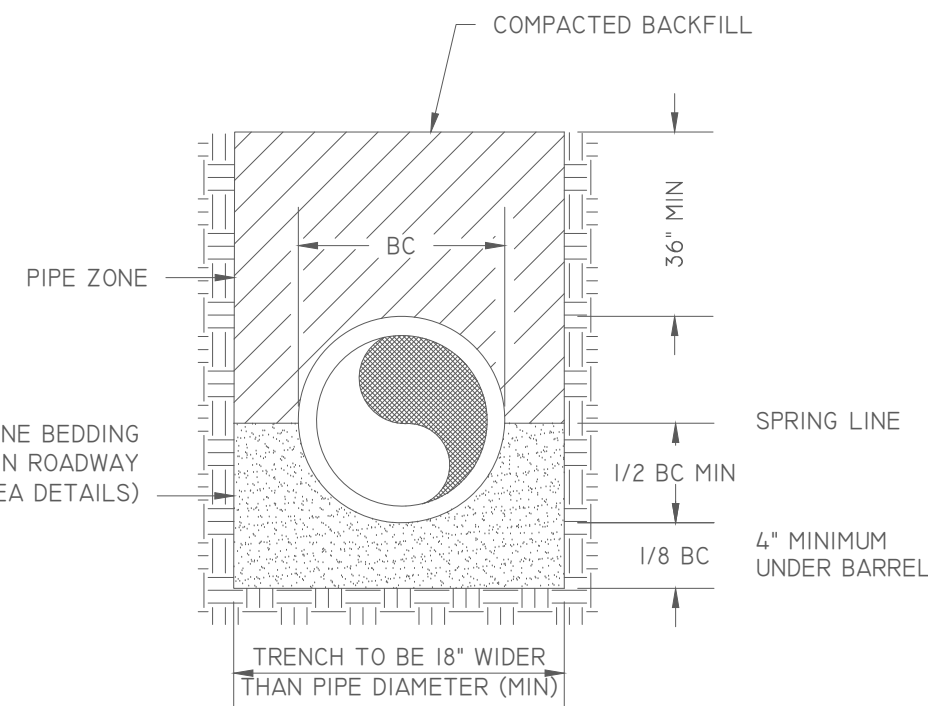
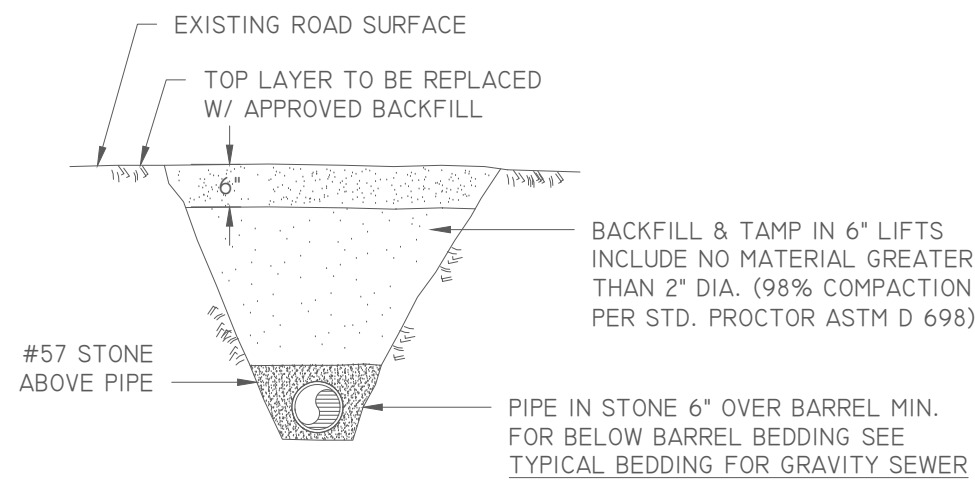
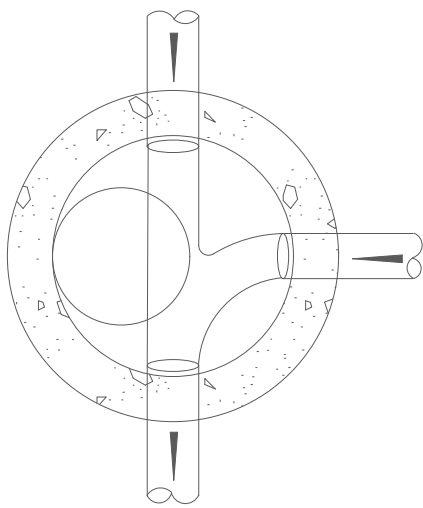
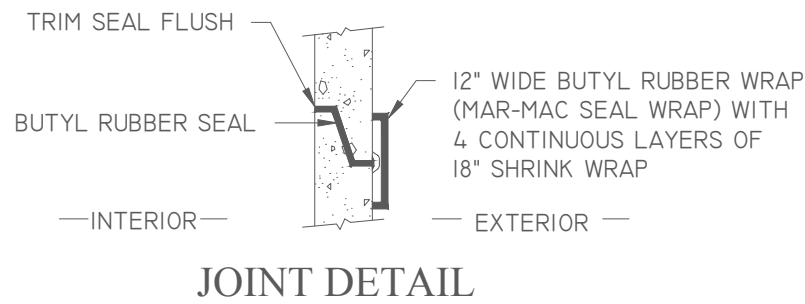
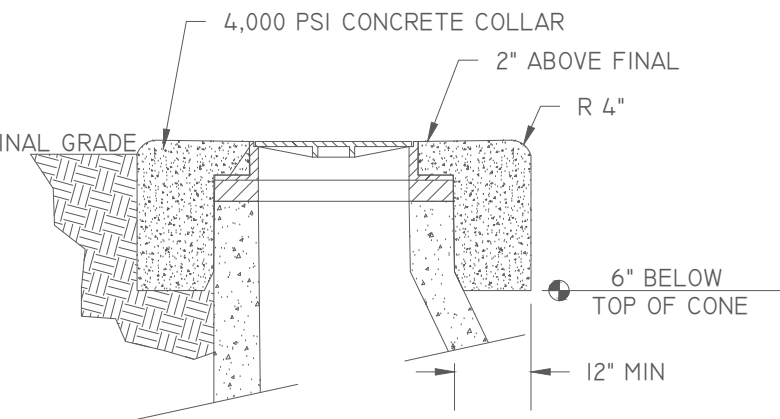
WATER AND SEWER PLAN

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | 1" = 40' |

C2.1

[illegible]

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | 1" = 1' |

[illegible]

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Engineering | Surveying | Planning | GIS | Consulting

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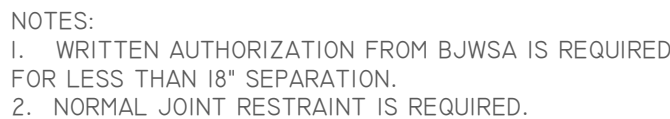
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| WASTE MANAGEMENT OF SOUTH CAROLINA, INC. HARDEEVILLE, SOUTH CAROLINA |
| HARDEEVILLE HAULING FACILITY |
| WATER AND SEWER DETAILS |

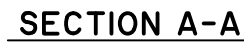
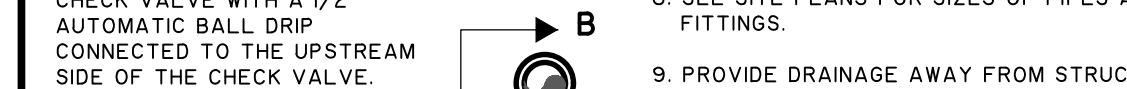
| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | 1" = 1' |



W-03



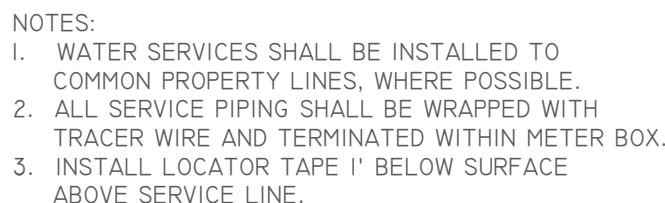
WATER OVER SANITARY SEWER / STORM DRAIN

W-07

NOT TO SCALE

OCT. 2008

THOMAS & HUTTON
ENGINEERING CO.



W-08



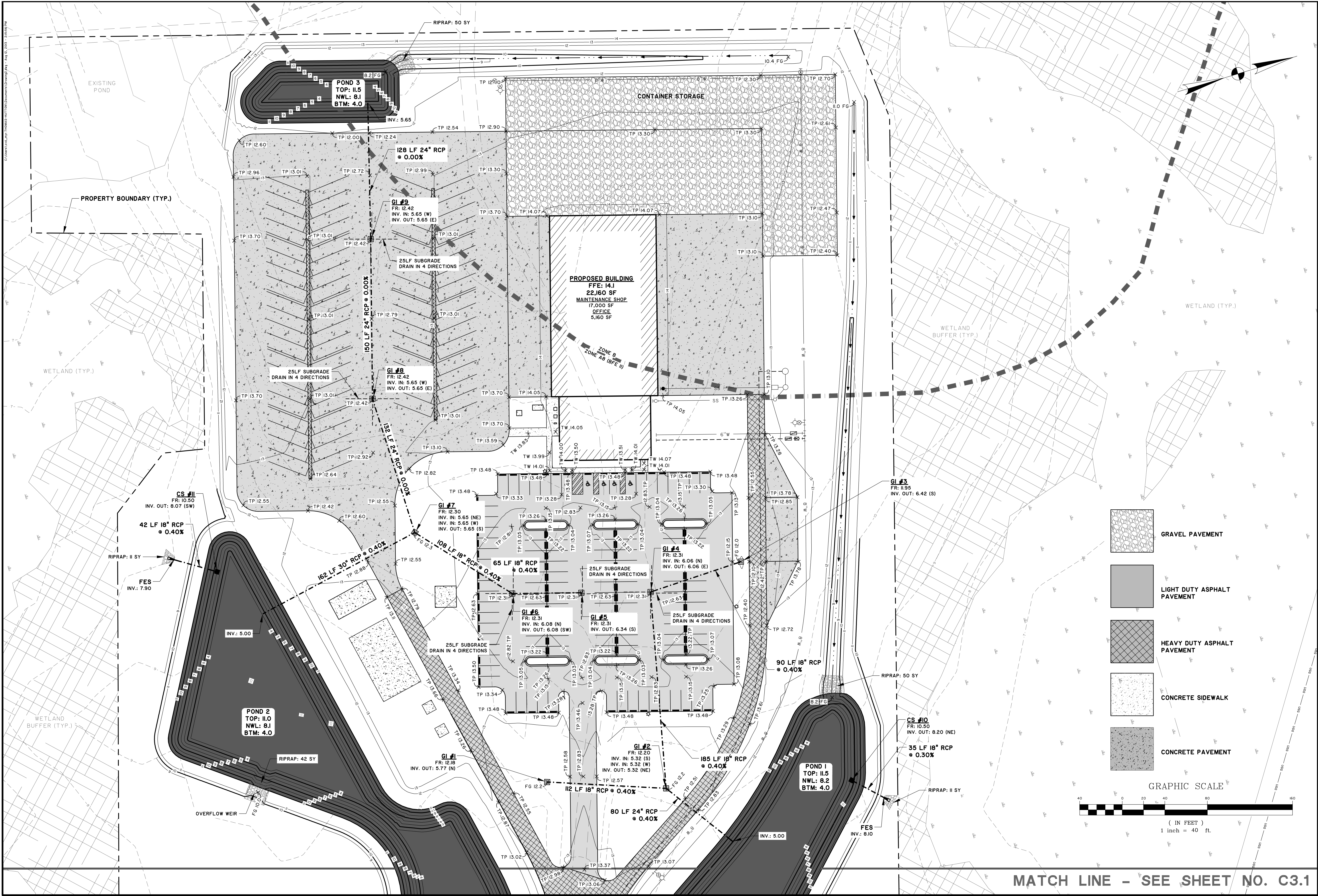
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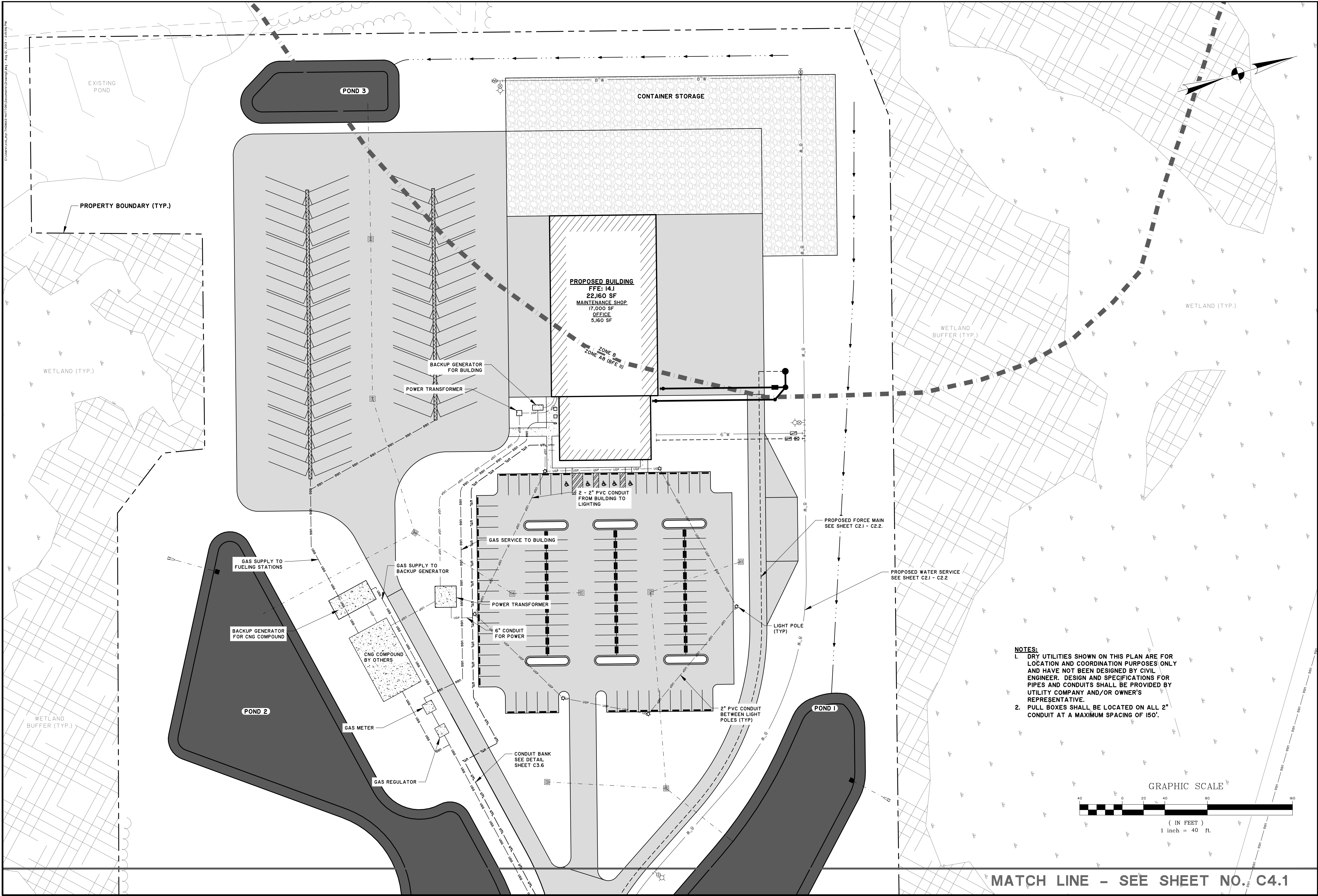
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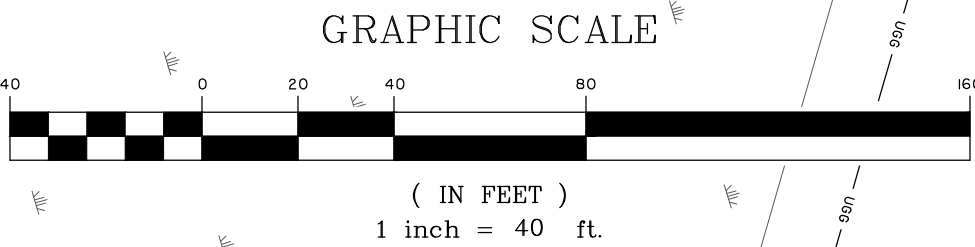
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|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | 1" = 1' |

C2.5

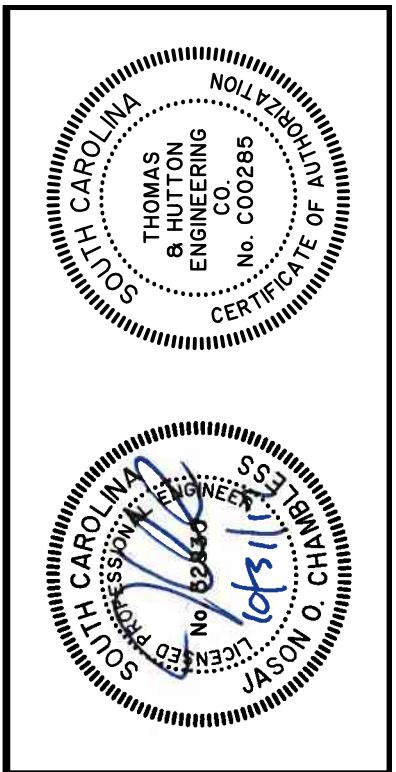




- NOTES:**
1. DRY UTILITIES SHOWN ON THIS PLAN ARE FOR LOCATION AND COORDINATION PURPOSES ONLY AND HAVE NOT BEEN DESIGNED BY CIVIL ENGINEER. DESIGN AND SPECIFICATIONS FOR PIPES AND CONDUITS SHALL BE PROVIDED BY UTILITY COMPANY AND/OR OWNER'S REPRESENTATIVE.
 2. PULL BOXES SHALL BE LOCATED ON ALL 2\"/>



MATCH LINE - SEE SHEET NO. C4.1



| NO. | REVISIONS | BY | DATE |
|-----|-----------|----|------|
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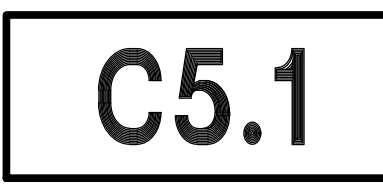
WASTE MANAGEMENT OF SOUTH CAROLINA, INC.
HARDEEVILLE, SOUTH CAROLINA

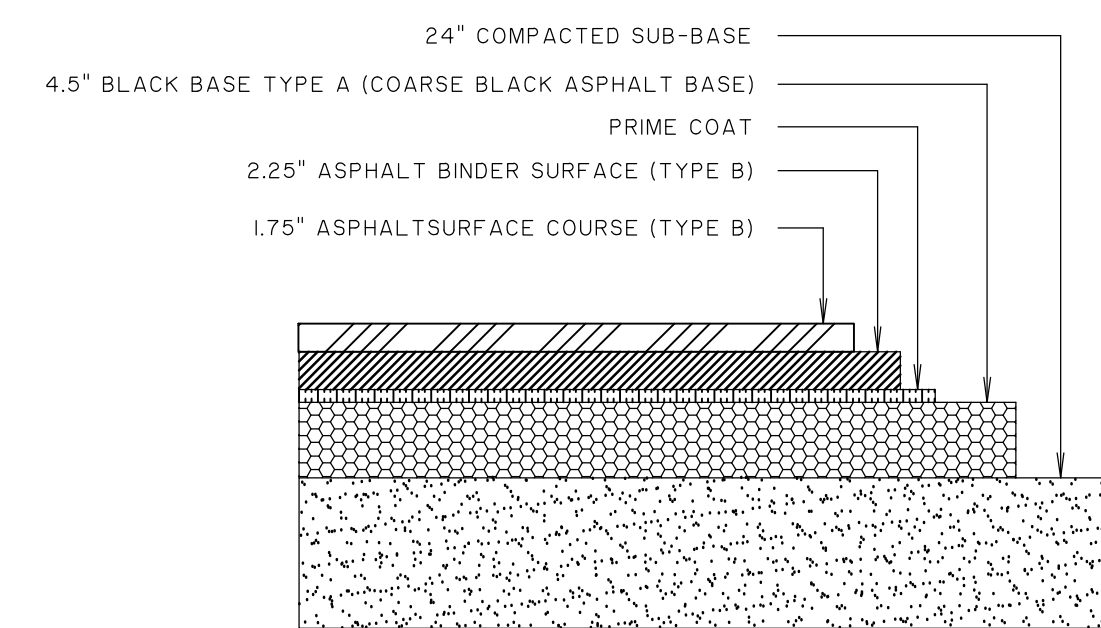
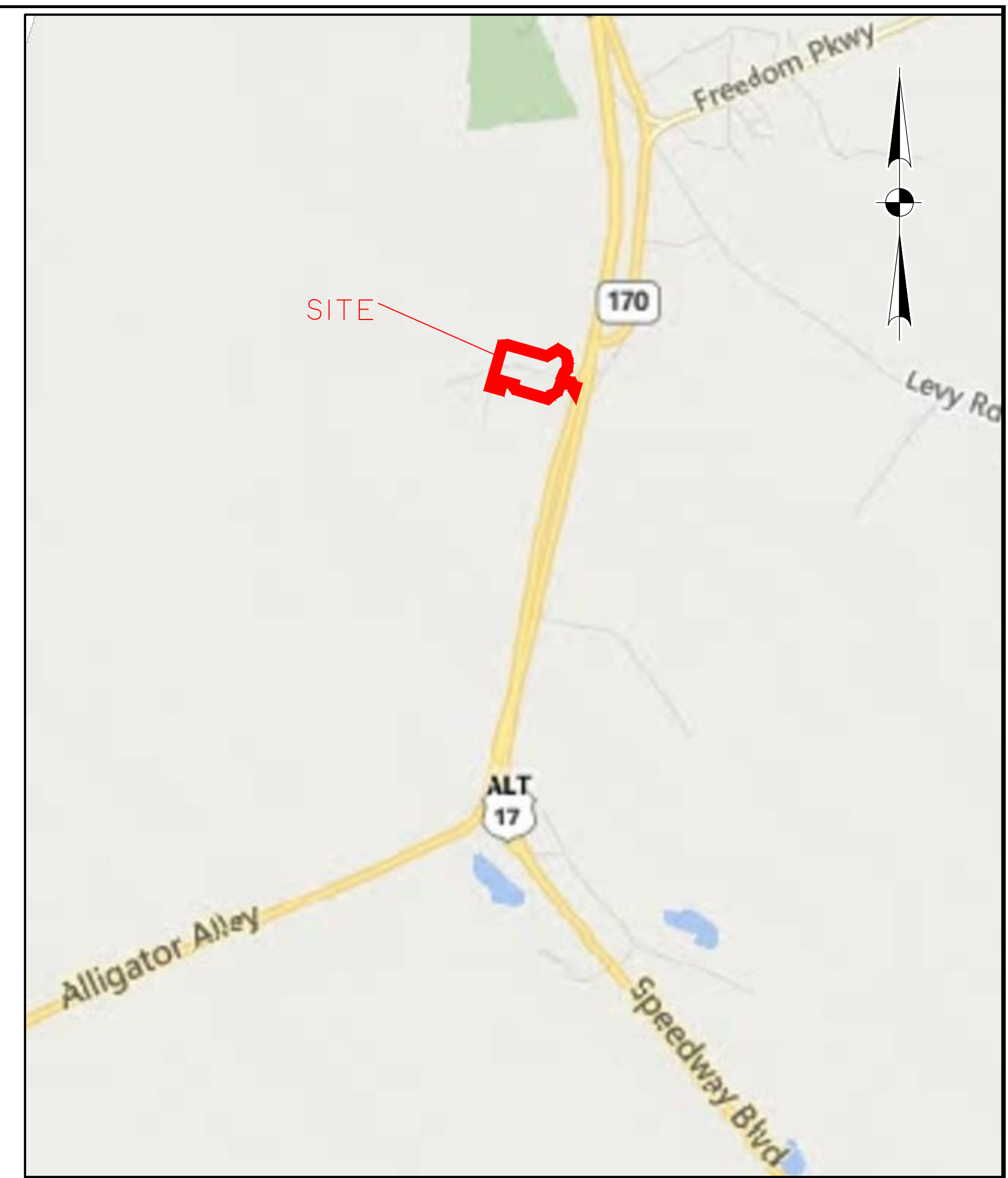
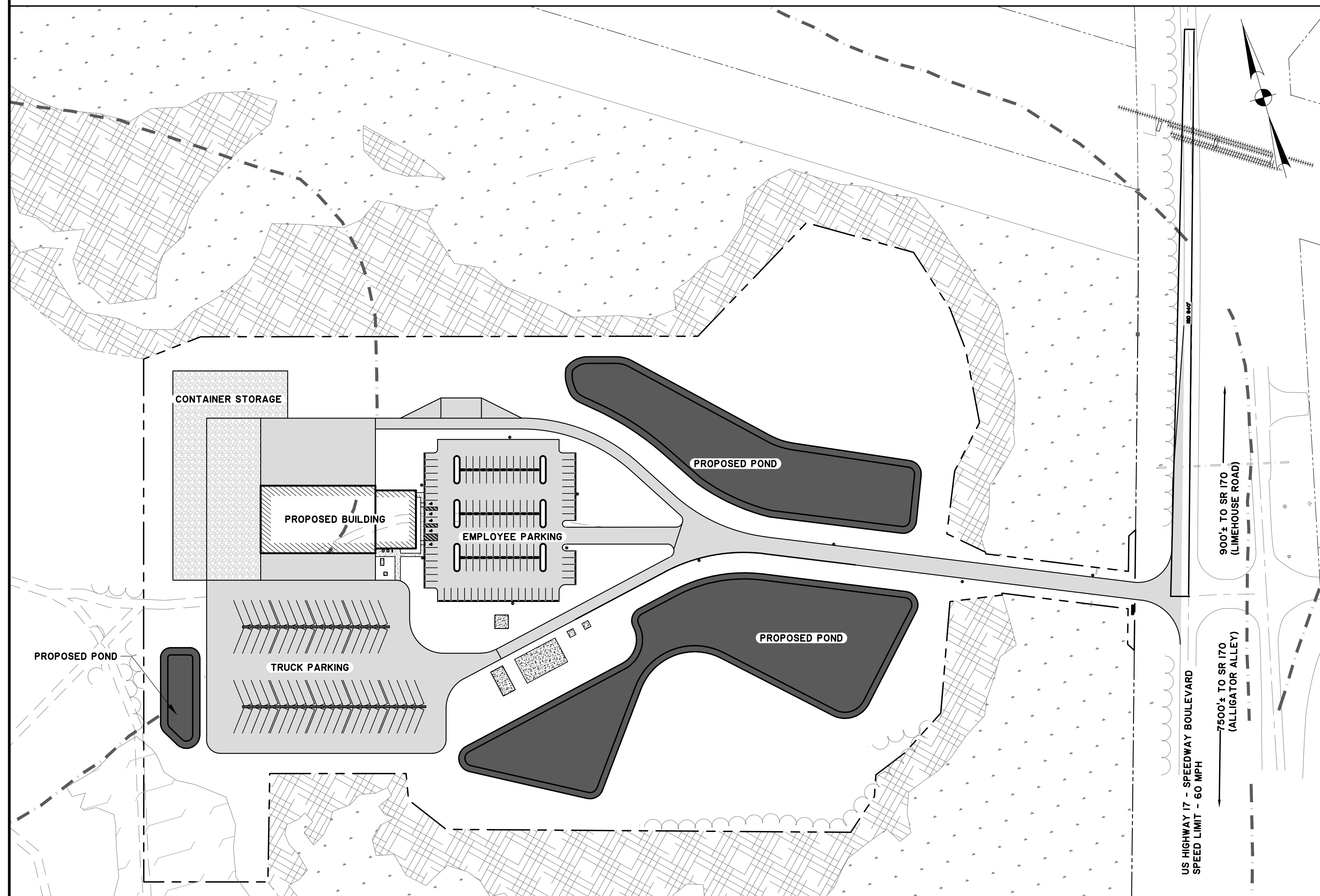
HARDEEVILLE HAULING FACILITY

DRY UTILITY PLAN

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | WHE |
| APPROVED: | JOC |
| SCALE: | 1" = 40' |

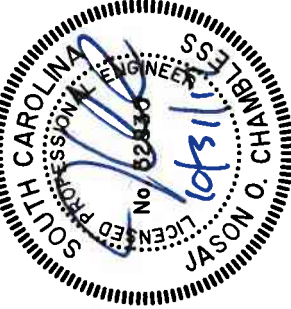
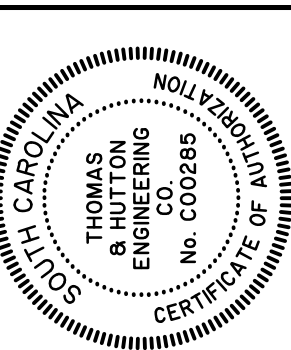
C4.2





NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO SCDOT STANDARD SPECIFICATIONS AND DRAWINGS.
2. ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY WILL BE PERMANENTLY STABILIZED ACCORDING TO SCDOT GRASSING SPECIFICATION.

[illegible]

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WASTE MANAGEMENT OF SOUTH CAROLINA, INC.
 HARDEEVILLE, SOUTH CAROLINA

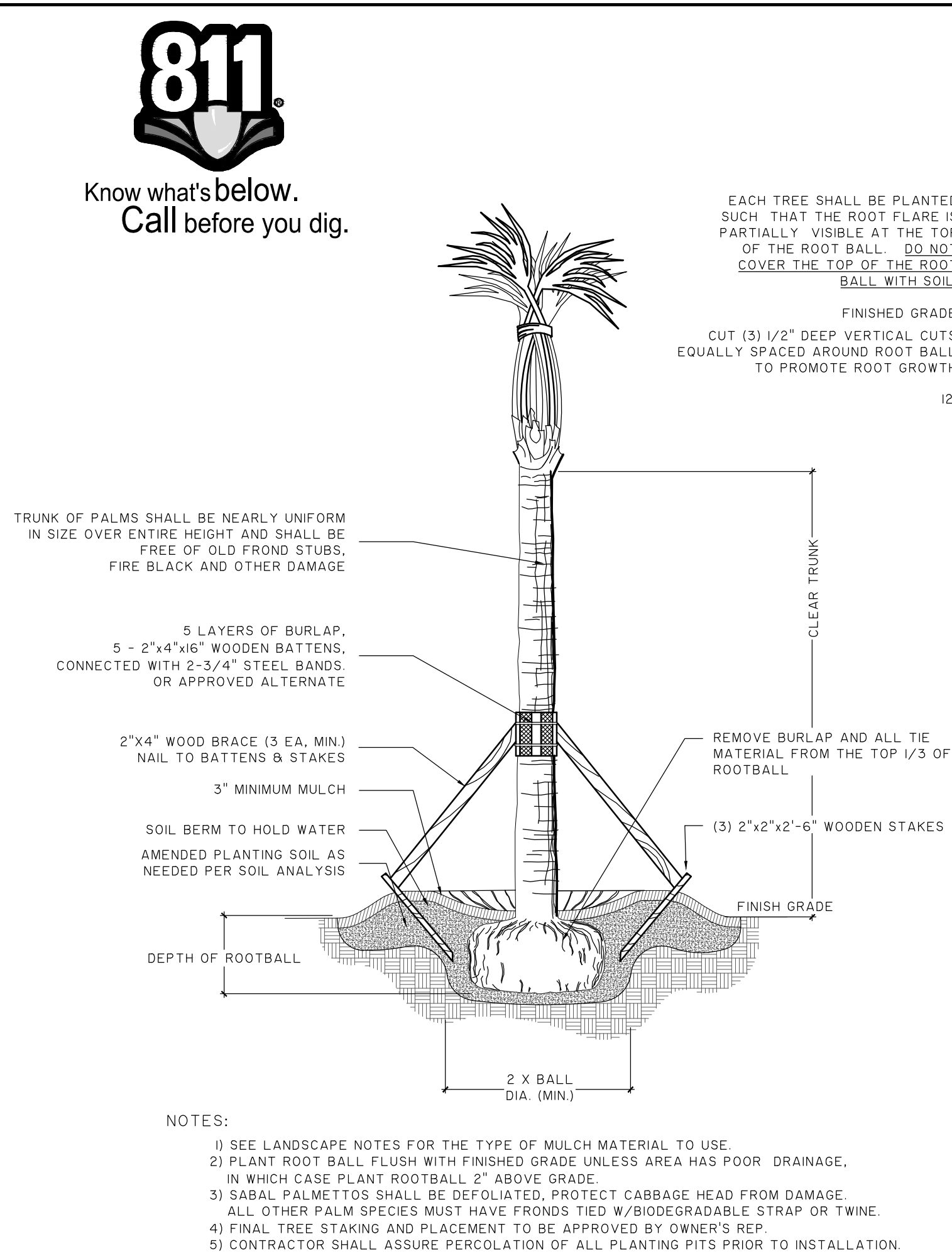
HARDEEVILLE HAULING FACILITY

SCDOT PLAN

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | WHE |
| DESIGNED: | WHE |
| REVIEWED: | |
| APPROVED: | JOC |
| SCALE: | |

C5.2

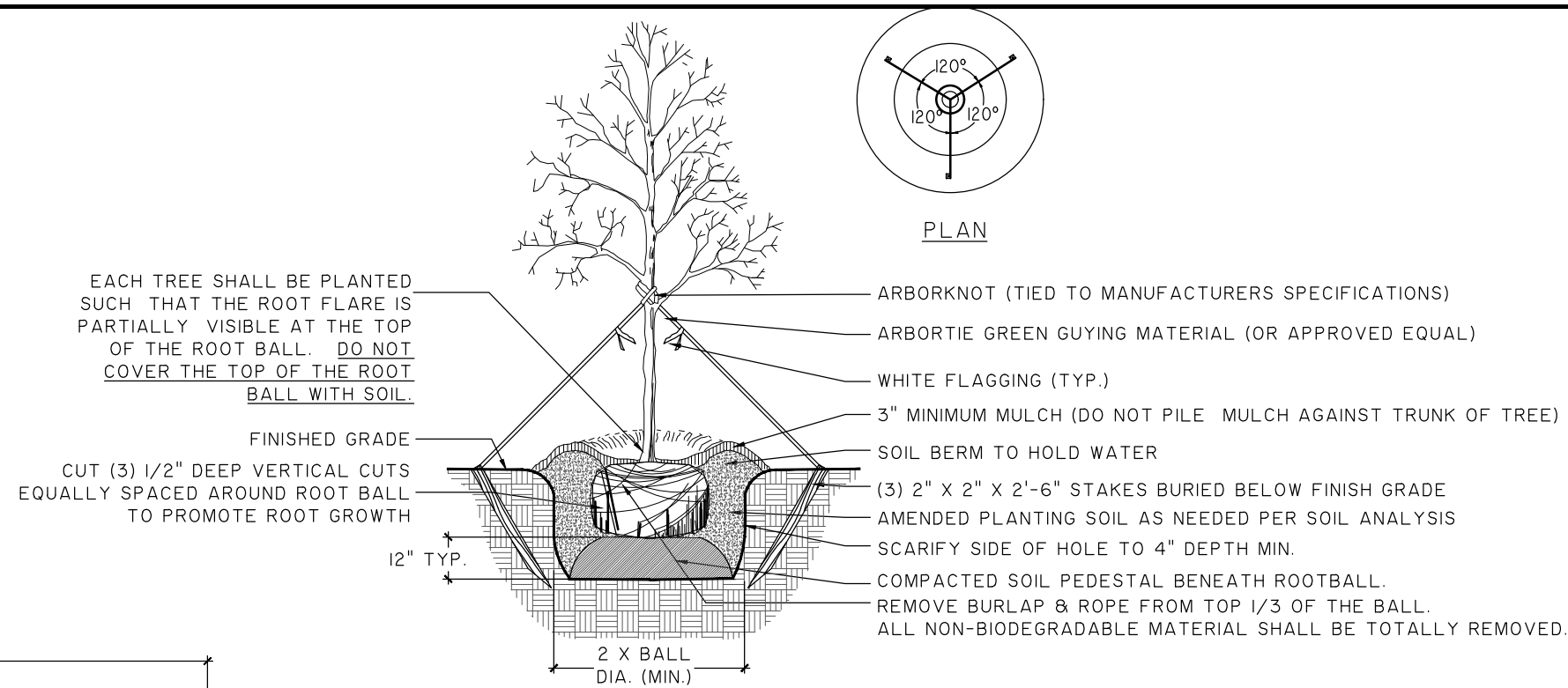
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PALM TREE PLANTING

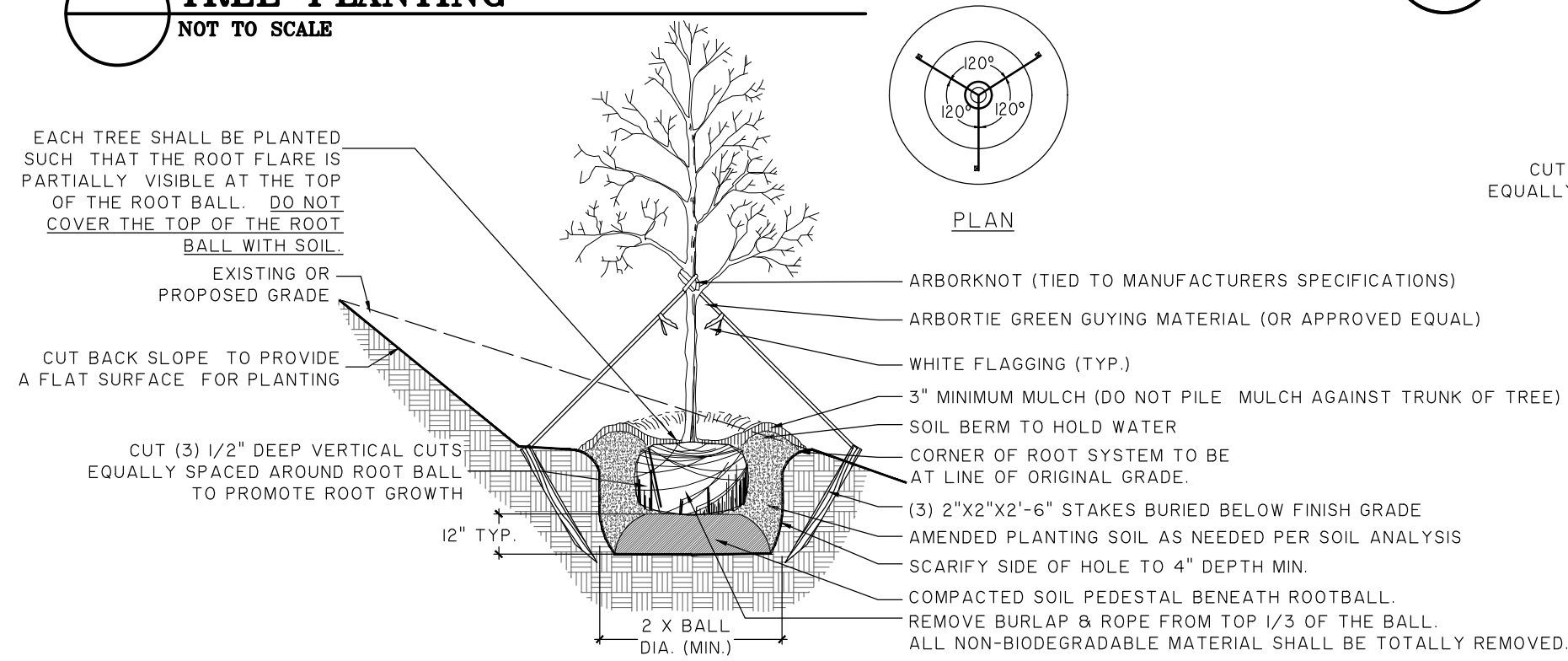
GENERAL PLANTING / IRRIGATION NOTES:

1. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST SHOULD FOLLOW OR EXCEED THE STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERY STOCKS (ASNS). UNLESS OTHERWISE SPECIFIED, ANY SIZE SPECIFIED SHALL BE CONSIDERED MINIMUM. MINIMUMS FOR HEIGHT, SPREAD, CALIPER, ETC. SHALL TAKE PRECEDENCE OVER A SPECIFIED CONTAINER SIZE. (I.E. - IF 7 GALLON IS REQUIRED, TO PROVIDE A SPECIFIED HEIGHT OR SPREAD THAT IS SPECIFIED AS A 3 GALLON, THEN THE 7 GALLON SHALL BE SHALL BE REQUIRED AND INCLUDED IN THE BASE BID AND SHALL NOT BE CONSIDERED A CHANGE ORDER.)
2. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
3. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEARS' VERTICAL GROWTH (TOP CANDLE).
4. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS. CONTRACTOR RESPONSIBLE FOR LOCATING, PROTECTING, AND REPAIRING ALL DAMAGE TO BUILDINGS, UTILITIES, PAVEMENT, AND CURB & GUTTER. ANY REPAIRS SHALL BE DONE PROMPTLY AT CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO OPENING ANY PLANTING PITS.
6. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL FILL THE BOTTOM OF HOLES WITH SIX (6) INCHES OF WATER. THIS WATER SHOULD PERCOLATE WITHIN A TWENTY-FOUR (24) HOUR PERIOD. IF WATER DOESN'T PERC, CONTRACTOR SHALL NOTIFY THE OWNER'S REP PRIOR TO INSTALLING PLANTS.
7. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SODS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE, THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
8. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY AT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.
9. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE. REPLACEMENTS ARE NOT SUBJECT TO AN ADDITIONAL GUARANTEE, BUT THE LANDSCAPE CONTRACTOR SHALL CONSULT WITH THE LANDSCAPE ARCHITECT ON REASON FOR PLANT DECLINE/DEATH AND HOW TO AVOID FUTURE INSTANCES.
10. SHOULD THE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE CONTRACTOR MAY UTILIZE THE FUNDS OF THE RETAINAGE TO HAVE THE REPLACEMENTS MADE IN ACCORDANCE WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.
11. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT UNATTENDED OVERNIGHT.
12. PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNT. DISCREPANCIES BETWEEN QUANTITIES SHOWN IN THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE.
13. REMOVE BURLAP/STRAPPING AND WIRE BASKET FROM TOP $\frac{1}{2}$ OF ROOT BALL ON TREES.
14. REMOVE PAPER, PLASTIC OR METAL AROUND ROOT BALLS OF SHRUBS.



TREE PLANTING

- NOTES:
- 1) SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
 - 2) ONLY GUY TREES WHEN SITE CONDITIONS REQUIRE IT.
 - 3) PLANT ROOT BALL FLUSH WITH FINISHED GRADE UNLESS AREA HAS POOR DRAINAGE, IN WHICH CASE PLANT ROOT BALL 2" ABOVE GRADE.
 - 4) REMOVE ALL BRANCHES THAT ARE DAMAGED, RUBBING, OR CROSSING OTHER BRANCHES.
 - 5) NEVER CUT A CENTRAL LEADER.
 - 6) FINAL TREE STAKING AND PLACEMENT TO BE APPROVED BY OWNER'S REP.
 - 7) CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

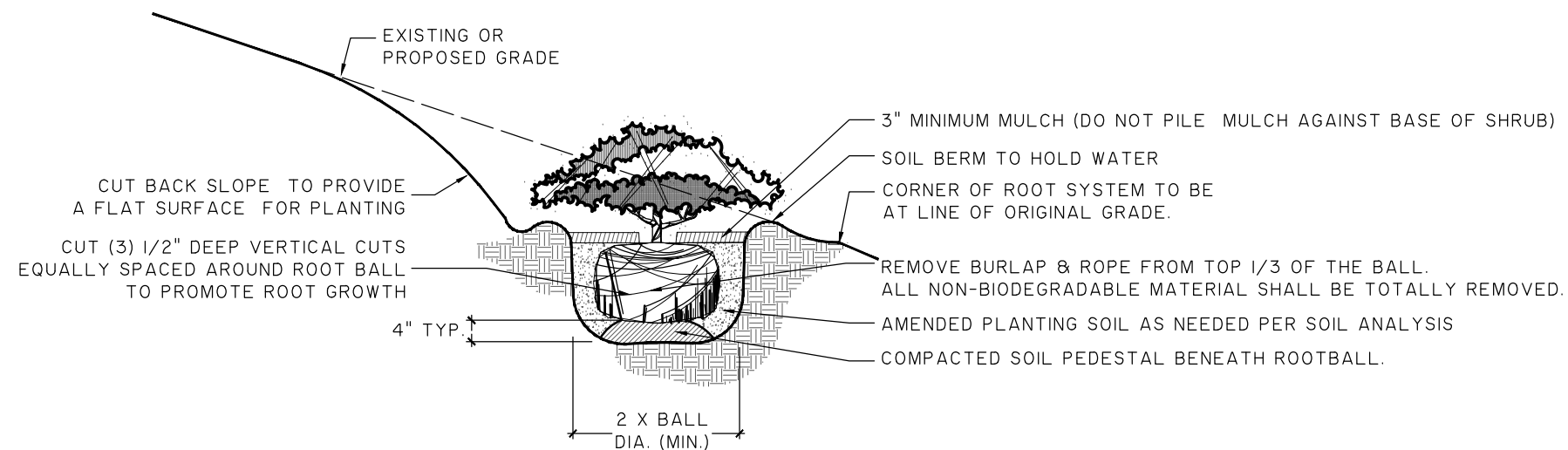


TREE PLANTING ON A SLOPE

15. DO NOT WRAP TREES.
16. WATER ALL PLANT MATERIAL IMMEDIATELY AFTER PLANTING.
17. TREE GUYING MATERIAL SHALL BE 'ARBOR-TIE' OR EQUIVALENT.
18. ALL PLANT BEDS TO BE MULCHED WITH 3" OF DOUBLE SHREDED HARDWOOD MULCH.
19. ALL AREAS OF PLANTING, INCLUDING AREAS OF GRASS SEEDING AND SOD, SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AND SHALL BE PROVIDED APPROPRIATE SOIL FOR THE PROPOSED PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL ADJUST PH AND / OR SOIL FERTILITY BY UNIFORMLY INCORPORATING REQUIRED SOIL CONDITIONING MATERIALS AT THE RATE AND DEPTH DETERMINED BY THE ANALYSIS OF THE SOIL TEST (AS REQUIRED IN 3.02 AND 3.13 OF THE LANDSCAPING SPECIFICATIONS). EACH SOIL TEST SHALL BE SPECIFIC TO THE PROPOSED PLANT MATERIAL TO BE INSTALLED IN A GIVEN AREA.
20. ALL EXISTING VEGETATION WITHIN AREAS TO BE PLANTED / SODDED / SEEDDED SHALL BE REMOVED PRIOR TO PLANTING / SODDING / SEEDING. ALL AREAS INDICATED TO BE GRASS SEED SHALL BE SEEDDED PER GRASSING SPECIFICATIONS FOR PERMANENT STABILIZATION.
21. CONTRACTOR SHALL COORDINATE WITH OWNER ON THE EXTENTS, IF ANY, OF A PERMANENT IRRIGATION SYSTEM. IF NO IRRIGATION IS PROVIDED, CONTRACTOR SHALL PROVIDE TEMPORARY WATERING AS NECESSARY DURING THE WARRANTY AND ESTABLISHMENT PERIOD.
22. ALL TREES SHALL BE INSTALLED PER THE REQUIREMENTS OF THE HARDEEVILLE, SOUTH CAROLINA APPLICABLE ORDINANCES.
23. ALL PLANT BEDS TO RECEIVE WEED INHIBITOR OF PREEN OR ACCEPTED ALTERNATE.
24. FOR SUMMERTIME PLANTINGS, CONTRACTOR TO USE EITHER CONTAINERIZED OR PRE-DUG B & B PLANT MATERIAL.
25. AS AN ADD ALTERNATE BID, THE CONTRACTOR SHALL PROVIDE "SOIL MOIST TRANSPLANT" (OR ACCEPTED EQUIVALENT) AT THE APPLICATION RATES SHOWN BELOW FOR ALL NEWLY INSTALLED PLANTINGS.

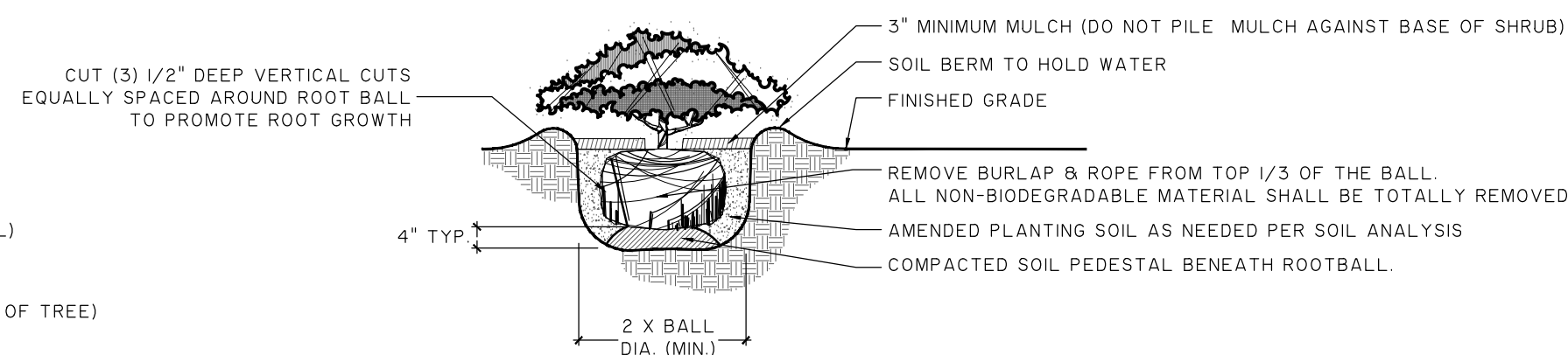
| <u>Container Size/Amount</u> | <u>Coliper Size/Amount</u> |
|------------------------------|----------------------------|
| 1 Gallon/.75 oz. | 1' /3.0 oz. |
| 2 Gallon/1.5 oz. | 2' /6.0 oz. |
| 3 Gallon/1.5 oz. | 3' /9.0 oz. |
| 5 Gallon/2.0 oz. | 4' /12.0 oz. |
| 7 Gallon/3.0 oz. | 5' /15.0 oz. |
| 10 Gallon/3.0 oz. | 6' /18.0 oz. |
| 15 Gallon/5.0 oz. | 7' /21.0 oz. |
| 20 Gallon/7.0 oz. | 8' /24.0 oz. |

| <u>Plant Height/Amount</u> | <u>Box Size/Amount</u> |
|----------------------------|------------------------|
| 2' /1.5 oz. | 16' /5.0 oz. |
| 3' /2.0 oz. | 20' /6.0 oz. |
| 4' /3.0 oz. | 24' /9.0 oz. |
| 5' /4.0 oz. | 30' /12.0 oz. |
| 6' /5.0 oz. | 36' /18.0 oz. |
| 7' /6.0 oz. | 42' /27.0 oz. |
| | 60' /30.0 oz. |



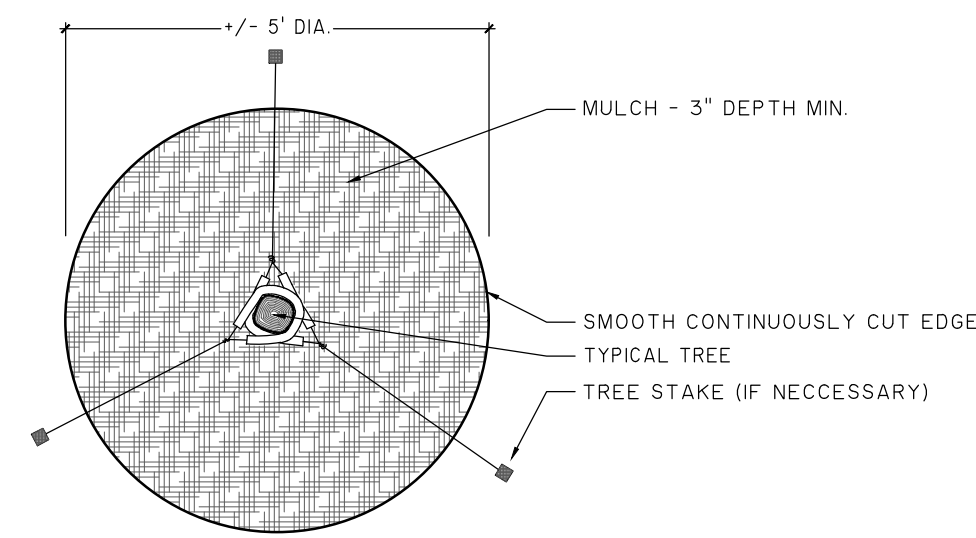
SHRUB PLANTING ON A SLOPE

- NOTES:
- 1) SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
 - 2) WHEN GROUND COVER AND SHRUBS ARE USED IN MASSES, DO NOT FORM SOIL BERMS ON INDIVIDUAL PLANTS AND ENTIRE PLANTING BED SHALL BE EXCAVATED TO RECEIVE PLANTING SOIL AND PLANT MATERIAL.
 - 3) PLANT ROOT BALL FLUSH WITH FINISHED GRADE UNLESS AREA HAS POOR DRAINAGE. IN WHICH CASE PLANT ROOTBALL 2" ABOVE GRADE. COORDINATE WITH OWNER'S REP. PRIOR TO SETTING ROOTBALL ELEVATIONS.
 - 4) CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.



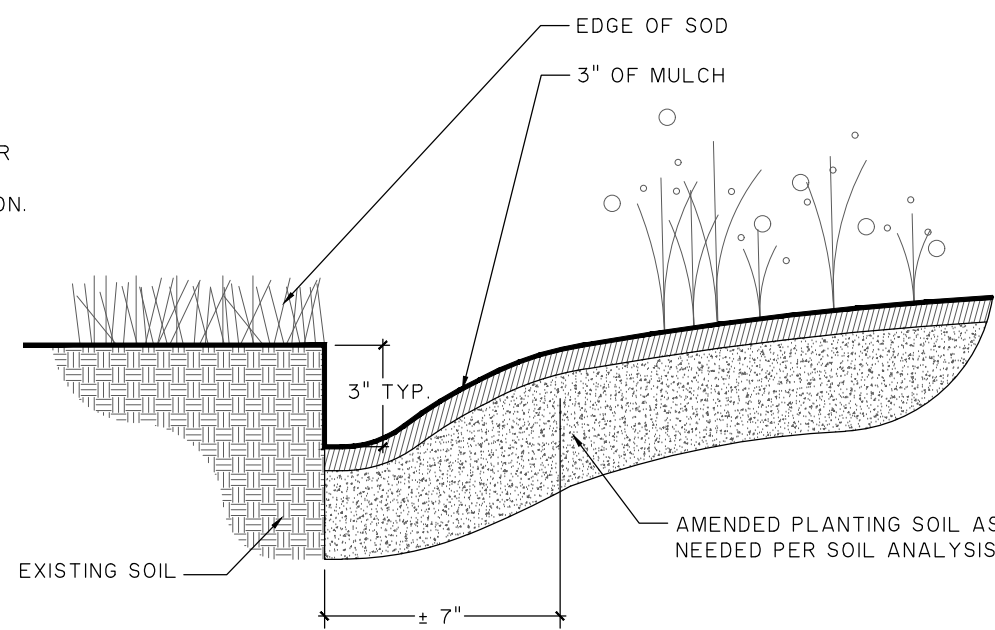
SHRUB PLANTING

- NOTES:
- 1) SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
 - 2) WHEN GROUNDCOVER AND SHRUBS ARE USED IN MASSSES, DO NOT FORM SOIL BERMS ON INDIVIDUAL PLANTS AND ENTIRE PLANTING BED SHALL BE EXCAVATED TO RECEIVE PLANTING SOIL AND MULCH MATERIAL.
 - 3) PLANT ROOT BALL FLUSH WITH FINISHED GRADE UNLESS AREA HAS POOR DRAINAGE, IN WHICH CASE PLANT ROOTBALL 2" ABOVE GRADE. COORDINATE WITH OWNER'S REP PRIOR TO SETTING ROOTBALL ELEVATIONS.
 - 4) CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION



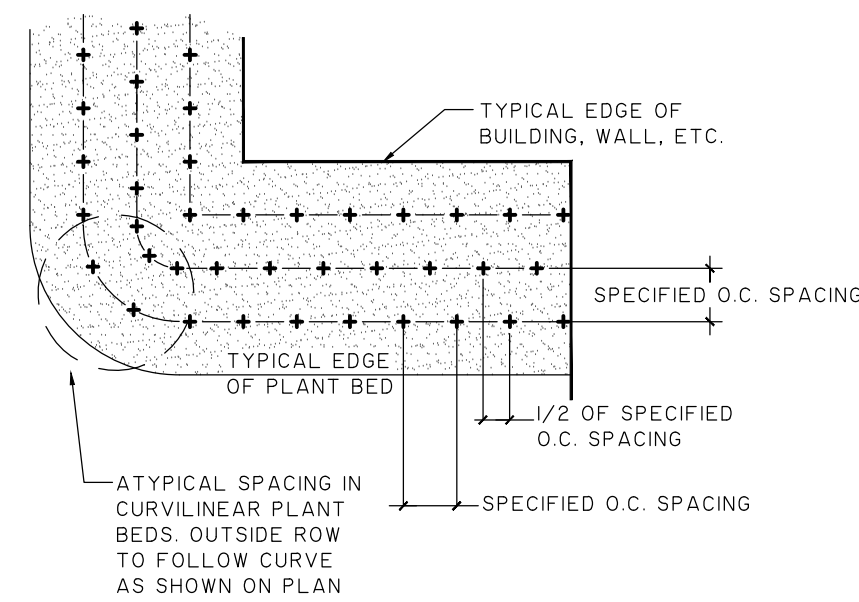
TREE RING

- NOTES:
- 1) SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
 - 2) APPLY MULCH IN A +/- 5' DIAMETER WHERE PROPOSED TREE PLANTINGS OCCUR IN SOD OR SEEDED AREA.



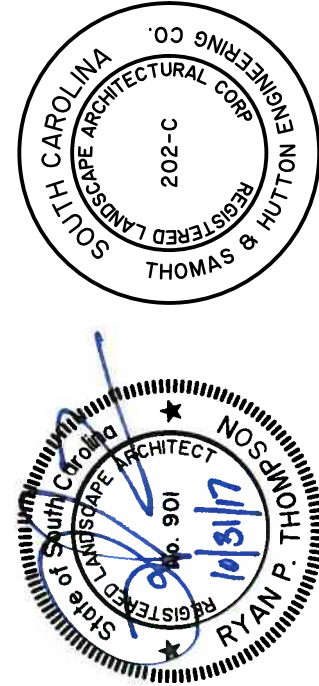
SOD TO PLANT BED EDGE

- NOTES:
1) TRENCH EDGE TO BE LOCATED BETWEEN PLANTING BEDS AND ALL LAWN AREAS.



PLANT SPACING DETAIL

- NOTES:
1) EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER PLANTING
TO A DEPTH OF 12".



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**WASTE MANAGEMENT OF SOUTH
CAROLINA, INC.**

HARDEEVILLE, SOUTH CAROLINA

HARDEEVILLE HAULING FACILITY

PLANTING DETAILS AND NOTES

| | |
|-----------|--------------|
| JOB NO: | J-26810.0001 |
| DATE: | 10/31/17 |
| DRAWN: | RPT |
| DESIGNED: | RPT |
| REVIEWED: | RPT |
| APPROVED: | RPT |
| SCALE: | NTS |

L2.1

END OF SECTION

L3.1

